Adopted Levels, Gammas

History			
Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh, Huang Xiaolong, and Wang Xianghan	NDS 204,1 (2025)	30-Jun-2023

Q(β^-)=−9181.1 *4*; S(n)=12891 *16*; S(p)=6473.0 *11*; Q(α)=−3364.1 *5* 2021Wa16
Q(ε)=1619.5 *7*, S(2n)=23136.3 *7*, S(2p)=11272.8 *5* (2021Wa16).
^{62}Zn produced and identified in deuteron and ^{3}He bombardment of Cu (1948Mi12), who also measured half-life.
Other reactions:
1997Fo03: ^{62}Ni(π^+,π^-),E=140-230 MeV, measured $\sigma(\theta)$.
1993Be02: ^{62}Ni(π^+,π^-),E=293.4 MeV, measured $\sigma(\theta)$.
1979ShZN: ^{58}Ni(^{14}N,^{10}B),E=155 MeV, measured $\sigma(\theta)$, DWBA.
1977Gr03: ^{58}Ni(α,p),E=6.26-9.12 MeV in steps of 20 keV, excitation functions measured to find resonances of large α width. The spectra show a large number of alpha-particle resonances, but their energies are not listed. Differential cross sections were measured at three angles. No evidence was found for levels with very large α widths; observed α width was concentrated in a small number of states, in qualitative agreement with the predictions of a weak coupling shell model.
1976Ca06: ^{64}Zn(γ,2n),E=8-30 MeV; measured σ, GDR width.
1970Co25: ^{64}Zn(γ,2n),E=12-40 MeV; measured σ, GDR.
Mass measurement: 2006Er03 (Penning trap method).
2013Zu01: measured quadrupole interaction frequencies for a ^{62}Zn probe using on-line perturbed angular correlation (PAC) and positron annihilation spectroscopy (PAS), with 30-keV radioactive ^{62}Zn beam produced at the HI-13 tandem accelerator of the China Institute of Atomic Energy (CIAE).
2019Go35: ^{30}Si(^{32}Si,X)^{62}Zn*,E=75,86,98,110 MeV; measured Eγ, Iγ, $\gamma\gamma$-coin, nγ-coin for analysis of decay of compound nucleus.
Theoretical nuclear structure calculations:
2022Mi15: calculated energies of low-lying 0^+, 2^+, 4^+ states, and B(E2).
2022Ko04: calculated ground state energy, charge rms radius using coupled cluster (CC) and ab-initio density functional theory.
2022Yo05: calculated excitation energies of the high-spin rotational bands, moments of inertia of superdeformed bands, quadrupole deformation, and possible occurrence of hyperdeformed states using cranked Skyrme-Khon-Sham calculations.
2018Ja02: calculated levels, J^π, and B(E2) using IBM-3.
2016Ra37: calculated levels, occupation numbers, B(E2) using shell model with NuShellX code.
2016Sa34: calculated levels, J^π, HF energies, quadrupole deformation, triaxiality parameter, neutron and proton s.p. alignments using no-core-configuration-interaction (NCCI) model.
2005Ji06: calculated binding energy, radius, deformation using relativistic mean-field approach.
Additional information 1.

^{62}Zn Levels

General specify configurations are listed in terms of valence holes or particles: [$p_1(\pm)p_2$,$n_1(\pm)n_2$], where p_1, n_1=number of proton or neutron holes in $1f_{7/2}$ orbital; p_2, n_2=number of neutron or proton particles in $1g_{9/2}$ orbital, relative to a closed ^{56}Ni core. The ($\pm$) notation refers to α=+1/2 and α=−1/2 signature.
Note that: configurations for bands are from Fig. 21 in 2012Ge04 in ^{28}Si(^{36}Ar,2pγ),^{40}Ca(^{28}Si,α2pγ) data with the following nomenclature based on cranked Nilsson-Strutinsky formalism, and relative to ^{56}Ni (N=Z=28) core:
$\pi[(1f_{7/2})^{-p1}(fp)^{p3}(1g_{9/2})^{p2}]$ abbreviated as π[p1,p2($\pm$)], where p3=2+p1−p2, + for α=+1/2, − for α=−1/2 for odd number of *fp* protons p3.
$\nu[(1f_{7/2})^{-n1}(fp)^{n3}(1g_{9/2})^{n2}]$ abbreviated as ν[n1,n2($\pm$)], where n3=4+n1+n2, + for α=+1/2, − for α=−1/2 for odd number of *fp* neutrons n3.

Cross Reference (XREF) Flags

A	^{62}Ga ε decay (116.123 ms)	H	^{58}Ni(^{16}O,^{12}C)	O	^{63}Cu(p,2nγ)
B	^{28}Si(^{36}Ar,2pγ),^{40}Ca(^{28}Si,α2pγ)	I	^{60}Ni(^{3}He,n)	P	^{64}Zn(p,t)
C	^{32}Si(^{30}Si,X):GDR	J	^{60}Ni(α,2nγ),(^{3}He,nγ)	Q	^{12}C(^{63}Zn,^{62}Znγ)
D	^{58}Ni(^{6}Li,pnγ)	K	^{60}Ni(^{12}C,^{10}Be)	R	^{58}Ni(^{4}He,xγ):GDR
E	^{58}Ni(^{6}Li,d),(POL ^{6}Li,d)	L	^{60}Ni(^{16}O,^{14}C)	S	^{12}C(^{63}Ga,^{62}Zn′γ)

F ^{58}Ni(^{7}Li,t) M ^{61}Ni(^{3}He,2nγ)
G ^{58}Ni(^{12}C,^{8}Be) N Coulomb excitation

E(level)[†]	J$^{\pi}$[#]	T$_{1/2}$	XREF	Comments
0.0[@]	0$^+$	9.197 h *20*	AB DEFGHIJKLMNOPQ S	%ε+%β^+=100 T$_{1/2}$: weighted average of 9.186 h *13* (1982Gr10, from decay curve for two γ rays followed over 8 to 11 half-lives, uncertainty is stated by authors as statistical only, evaluators increased it to 0.020 h to account for possible systematic uncertainty); 9.231 h *20* and 9.23 h *6* (1972Cr02, γ counting, average of measurements for four γ rays of 260, 394, 548 and 597 keV at two different energies of E(^{3}He) beam in ^{64}Zn(^{3}He,X) reaction; 9.34 h *4* and 9.39 h *5* at two other beam energies not used in the averaging procedure because of low counting rates and systematically higher T$_{1/2}$ values); 9.3 h *2* (1967Ro01, γ decay curve, but no details); 9.2 h *1* (1967An01, from decay curves for several conversion lines, but no other details); 9.13 h *3* (1964Ru06, $\gamma\gamma$-coin counting method, eight runs, but no other details); 9.3 h *2* (1954Nu27,γ counting, but no details). Reduced χ^2=1.5. Others: 8.4 h *2* (1953Ku08, value from a composite decay curve of several activities), 9.33 h (1950Ha65, from positron decay curve), 9.5 h (1948Mi12, from electron counting using GM counter). Measured isotope shift $\delta\nu^{68,62}$=−239.5 MHz *11*(stat) *99* (syst) (2019Xi07, collinear laser spectroscopy, COLLAPS at ISOLDE-CERN facility). Measured change in rms charge radius $\delta<r^2>^{68,62}$=−0.493 fm^2 *3*(stat) *52*(syst) (2019Xi07, collinear laser spectroscopy, COLLAPS at ISOLDE-CERN facility).
953.86[@] *5*	2$^+$	2.93 ps *21*	AB DEFGHIJKLMNOPQ S	μ=+0.74 *20* (2002Ke02,2020StZV) μ: from g factor=+0.37 *10* (2002Ke02) using projectile Coulomb excitation in inverse kinematics and transient magnetic fields. Data reanalyzed in 2010Mo14 with the same result of g=+0.37 *10*. J$^{\pi}$: E2 γ to 0$^+$. T$_{1/2}$: weighted averaged mean lifetime τ=4.23 ps *30* from τ=4.2 ps *7* in (^{63}Zn,^{62}Zn) (2007St16); 4.3 ps *3* in Coulomb excitation (2002Ke02); 4.2 ps *3* in (^{6}Li,pnγ) (1981Wa09); and 2.5 ps *+10−20* in (α,2nγ) (1977BrYO).
1804.66[&] *6*	2$^+$	2.63 ps *42*	AB DE H JKLMNOPQ S	J$^{\pi}$: E2 γ to 0$^+$.
2186.03[@] *10*	4$^+$	0.53 ps *+24−14*	B DE GH JK MNOP S	J$^{\pi}$: ΔJ=2, E2 γ to 2$^+$; L(p,t)=4. T$_{1/2}$: from DSAM in (^{6}Li,pnγ). Other: 1.0 ps *7* and ≥0.35 ps from DSAM in (α,2nγ).
2342.37 *7*	0$^+$		A E HI M P	XREF: E(2360)I(2390) J$^{\pi}$: L(^{6}Li,d)=0; $\gamma\gamma(\theta)$ in ^{62}Ga ε decay. L(p,t)=0 for 2330 *10* level in 1974Hi05, and for 2380 *20* level in 1973Ku05. L(^{3}He,n)=(0) for 2390 *30* level. L(p,t)=2 for 2342.2 level in 2019Le11 is in disagreement.
2384.49[a] *13*	3$^+$	1.7 ps *11*	B D J MNOP S	J$^{\pi}$: ΔJ=1, M1+E2 γ to 2$^+$; not 1 from excitation function. T$_{1/2}$: >0.7 ps from DSAM, <2.8 ps from RDM in (^{6}Li,pnγ).
2743.55[&] *13*	4$^+$	2.36 ps *21*	B DE H J M OP	J$^{\pi}$: ΔJ=2, E2 γ to 2$^+$; ΔJ=0, M1+E2 γ to 4$^+$; L(p,t)=4. T$_{1/2}$: RDM in (^{6}Li,pnγ).
2803.24 *9*	2$^+$	<0.167 ps	A E H LM P S	XREF: E(2840) J$^{\pi}$: L(^{6}Li,d)=2. L(p,t)=2. T$_{1/2}$: 0.146 ps *21* (effective T$_{1/2}$ from DSAM in (^{3}He,2nγ), considered as an upper limit). E(level): identified as one component of one-phonon mixed-symmetry 2$^+$ state (2010Al28).

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Adopted Levels, Gammas (continued)

^{62}Zn Levels (continued)

E(level)[†]	J$^{\pi}$[#]	$T_{1/2}$	XREF	Comments
2883.86 *24*	2^+	<0.153 ps	A M P	J$^{\pi}$: $\gamma\gamma(\theta)$ in (^{3}He,2nγ); L(p,t)=2. $T_{1/2}$: 0.132 ps *21* (effective $T_{1/2}$ from DSAM in (^{3}He,2nγ), considered as an upper limit). E(level): identified as second component of one-phonon mixed-symmetry 2^+ state (2010Al28).
2961.56 *10*	(1^+)		A	J$^{\pi}$: β feeding (log *ft*=7.44) from 0^+ parent; 2962.3γ to 0^+, g.s.
3046.40 *11*	0^+		A P	J$^{\pi}$: L(p,t)=0. (2093γ)(954γ)(θ) in ε decay (2020Ma59) consistent with 0^+, but also allows J=1,2,3,4.
3148.02 *21*	$(0^+,1^-,2^+)$		A P	XREF: P(3146.21) J$^{\pi}$: γ to 2^+; γ from (1^+); population in (p,t) disfavors unnatural parity states of $J^{\pi}=1^+,2^-,3^+$.
3180.90 *7*	$1^{(+)}$		A	J$^{\pi}$: (2227γ)(954γ)(θ) in ε decay (2020Ma59) allows J=1,2,3,4; γ to 0^+ and β feeding (log *ft*=5.97) by Gamow-Teller transition from 0^+ parent does not permit J=2,3,4.
3181.1 *3*	2^+		g I l P	XREF: I(3186) J$^{\pi}$: L(p,t)=2; L(^{3}He,n)=2+(3) for 3186 *30* level.
3209.79 *20*	4^+	<0.285 ps	B De g klM P	XREF: k(3310) 2010Al28 in (^{3}He,2nγ) identify 3209, 4^+ state as a candidate for a two-phonon mixed symmetry state. However, non-observation of expected transition to the one-phonon mixed symmetry 2^+ state at 2803 keV does not allow a confirmed identification of such an excitation. E(level): within 2σ uncertainty, a 3310 *50* level in (^{12}C,^{10}Be) may correspond to a mixture of 3209, 4^+ and 3223, 3^- levels; the same spin-parity assignments were made in this reaction from comparison of $\sigma(\theta)$ with DWBA calculations, systematic trends and shell-model calculation with configuration=$\pi f^2_{5/2}$. J$^{\pi}$: L(p,t)=4; $\gamma\gamma(\theta)$ in (^{3}He,2nγ) rules out 3^-, based on χ^2 for $\gamma\gamma(\theta)$ for 4 →4 →2 and 3 → 4 → 2 γ cascades; L(^{6}Li,d)=3,4 if the 3190 level corresponds to 3209.9 and 3223.5 levels. $J^{\pi}=3^-$ assignment in (^{36}Ar,2pγ), is in disagreement. $T_{1/2}$: 0.250 ps *35* (effective $T_{1/2}$ from DSAM in (^{3}He,2nγ), considered as an upper limit).
3223.50 *40*	3^-		e gH klM P S	XREF: H(3190)k(3310) J$^{\pi}$: L(p,t)=3; L(^{6}Li,d)=3,4 if the 3190 level corresponds to 3209.9 and 3223.5 levels. See also comment for 3210, 4^+ level.
3340.51 *30*	$(0^+,1,2^-)$		A	J$^{\pi}$: β feeding (log *ft*=7.83) from 0^+ parent; 2386γ to 2^+.
3374.24 *9*	1^-		A P	J$^{\pi}$: L(p,t)=1; 3374.1γ to 0^+, g.s.
3406 *2*			P	
3424.17 *11*	(1^+)		A	J$^{\pi}$: β feeding (log *ft*=6.59) from 0^+ parent; 3425.3γ to 0^+, g.s.
3443 *2*			P	
3474 *2*	2^+		E P	J$^{\pi}$: L(p,t)=2.
3561.0 *5*	$(0^+,1,2^-)$		A	J$^{\pi}$: β feeding (log *ft*=7.75) from 0^+ parent; 2607.1γ to 2^+.
3571 *2*			P	
3583 *2*			P	J$^{\pi}$: L(p,t)=(2), but with a poor fit to DWBA for a 3590 *10* level in 1974Hi05.

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Adopted Levels, Gammas (continued)

^{62}Zn Levels (continued)

E(level)[†]	Jπ[#]	$T_{1/2}$	XREF	Comments
3586.56[a] *19*	5^+	0.63 ps *+63−21*	B DE J M O	XREF: E(3540) Jπ: γ(θ) and excitation function, (^{6}Li,pnγ). $T_{1/2}$: from DSAM in (^{6}Li,pnγ).
3621 *2*	2^+		P	Jπ: L(p,t)=2 for a 3640 *10* level in 1974Hi05.
3689 *2*			E P	XREF: E(3680) Jπ: L(p,t)=(2) suggests (2^+) for a 3690 *20* level in 1972Fa08.
3690.6 *9*	(0^+,1,2^-)		A	Jπ: β feeding (log *ft*=7.80) from 0^+ parent; 2736.7γ to 2^+.
3707.47[@] *20*	6^+	0.23 ps *+14−7*	B D J M OP	Jπ: ΔJ=2, E2 γ to 4^+; L(p,t)=6, but with poor fit to DWBA. $T_{1/2}$: from DSAM; weighted average of 0.17 ps *+14−7* in (α,2nγ); and 0.25 ps *+17−7* in (^{6}Li,pnγ) Other: 0.250 ps *35* (effective $T_{1/2}$ from DSAM in (^{3}He,2nγ), should be considered as an upper limit).
3788 *2*			P	Jπ: L(p,t)=(1,2) suggests (1^-,2^+) for 3780 *20* level in 1973Ku05.
3817 *2*	2^+		P	Jπ: L(p,t)=2 suggests (2^+) for 3830 *10* level in 1974Hi05.
3862 *2*	0^+		P	Jπ: L(p,t)=0.
3870 *20*	1^-		E HI	E(level): from (^{6}Li,d). Jπ: L(^{3}He,n)=L(^{6}Li,d)=1. L(^{3}He,n)=2 in 1974FiZB is in disagreement.
3884 *2*			P	
3936 *6*	0^+		P	Jπ: L(p,t)=0 (2019Le11).
3994 *6*			P	Jπ: 0^+ suggested by L(p,t)=0 for 4000 *10* level in 1974Hi05, and for 3980 *20* in 1972Fa08; also L=(0) for 4000 *20* level in 1973Ku05.
4008.4 *7*	(0^+ to 4^+)		E G M	Jπ: γ to 2^+.
4021 *6*			P	
4021.79 *9*	(1^+)		A	Jπ: probable allowed β feeding (log *ft*=5.82) from 0^+ parent; 4021.6γ to 0^+, g.s.
4043.12[c] *21*	5^-	0.69 ps *+14−49*	B DE HIJ LM O	XREF: E(4040)I(4020) Jπ: 3,5 from γ(θ), 1857.3γ, E1 from linear polarization to 4^+; 5 from excitation function in (^{6}Li,pnγ); L(^{6}Li,d)=(5,1). $T_{1/2}$: from DSAM in (^{6}Li,pnγ). Other: 0.270 ps *42* (effective $T_{1/2}$ from DSAM in (^{3}He,2nγ), should be considered as an upper limit).
4141 *6*			P	Jπ: L(p,t)=(4) suggests (4^+) for 4090 *10* level in 1974Hi05; L=0,4 suggests 0^+,4^+ for 4160 *20* level in 1973Ku05; and L=4 suggests 4^+ for 4170 *10* level in 1972Fa08.
4170 *50*	(5^-)		K	E(level): this level may correspond to the 4043, 5^- level. Jπ: from comparison of σ(θ) in (^{12}C,^{10}Be) to DWBA calculations, systematic trend and shell-model calculations.
4200 *6*			P	
4217.6 *7*			M P	Jπ: L(p,t)=(3) suggests (3^-) for 4220 *10* level in 1974Hi05.
4230.7 *6*	(5^+)		B	Jπ: 643.9γ to 5^+; 1845.8γ to 3^+; no γ to 2^+.
4257 *6*			P	
4282 *6*			P	
4306 *6*	5^-		P	Jπ: L(p,t)=5.

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Adopted Levels, Gammas (continued)

^{62}Zn Levels (continued)

E(level)[†]	J$^{\pi}$[#]	$T_{1/2}$	XREF	Comments
4322.66 *36*	(1$^+$)		A	J$^{\pi}$: β feeding (log *ft*=6.78) from 0$^+$ parent; 3368.1γ to 2$^+$; possible 1982.1γ to 0$^+$.
4331 *6*			P	J$^{\pi}$: L(p,t)=2 suggests 2$^+$ for 4330 *10* level in 1974Hi05; and L=3 suggests 3$^-$ for 4320 *20* level in 1973Ku05.
4347.91[&] *19*	6$^+$	0.28 ps *+28−14*	B D M	J$^{\pi}$: ΔJ=2, E2 1604.3γ to 4$^+$; 640.4γ to 6$^+$. $T_{1/2}$: from DSAM in (^{6}Li,pnγ). Other: 0.48 ps *13* (effective $T_{1/2}$ from DSAM in (^{3}He,2nγ), should be considered as an upper limit).
4413 *9*			P	J$^{\pi}$: L(p,t)=(4) suggests (4$^+$) for 4380 *20* level in 1974Hi05.
4432 *9*			P	
4447.87 *6*	(1$^+$)		A	J$^{\pi}$: probable allowed β feeding (log *ft*=5.47) from 0$^+$ parent; 4447.7γ to 0$^+$, g.s.
4483 *9*	1$^-$		P	J$^{\pi}$: L(p,t)=1.
4518 *9*	6$^+$		E P	J$^{\pi}$: L(^{6}Li,d)=6; L(p,t)=6.
4531.6 *5*	(0$^+$,1,2$^-$)		A	J$^{\pi}$: β feeding (log *ft*=7.38) from 0$^+$ parent; 3577.6γ to 2$^+$.
4535.28 *23*	5$^-$		B M	J$^{\pi}$: ΔJ=2, E2 369.7γ from 7$^-$; ΔJ=1, dipole 2349.8γ to 4$^+$.
4544 *9*			h P	XREF: h(4540)
4552 *9*	0$^+$		h P	XREF: h(4540) J$^{\pi}$: L(p,t)=0.
4576 *9*			P	
4590 *9*			P	J$^{\pi}$: L(p,t)=(0) suggests (0$^+$) for 4620 *20* level in 1974Hi05; and L(p,t)=0 suggests 0$^+$ for 4570 *10* level in 1972Fa08.
4600 *50*	(6$^+$&7$^-$)		K	J$^{\pi}$: from comparison of $\sigma(\theta)$ in (^{12}C,^{10}Be) to DWBA calculations, with preference for 7$^-$ based on systematic trend, and configuration=$\nu f_{5/2}\otimes\nu g_{9/2}$.
4670 *9*			P	J$^{\pi}$: L(p,t)=4 suggests 4$^+$ for 4680 and/or 4670 levels in 1974Hi05.
4688 *9*			P	J$^{\pi}$: L(p,t)=4 suggests 4$^+$ for 4680 and/or 4670 levels in 1974Hi05.
4725 *9*	2$^+$		h P	XREF: h(4750) J$^{\pi}$: L(p,t)=2.
4771 *9*	2$^+$		h P	XREF: h(4750) J$^{\pi}$: L(p,t)=2.
4778 *9*			h P	XREF: h(4750)
4869 *9*	5$^-$		P	J$^{\pi}$: L(p,t)=5 in 2019Le11. L(p,t)=(3,4) for 4860 *30* level in 1974Hi05, and L(p,t)=(2) for 4860 *20* level in 1972Fa08 are in disagreement.
4894 *9*			h P	XREF: h(4890)
4894.35 *9*	(1$^+$)		A h	XREF: h(4890) J$^{\pi}$: probable allowed β feeding (log *ft*=5.69) from 0$^+$ parent; 4894.2γ to 0$^+$, g.s.
4904.73[c] *23*	7$^-$	8.3 ps *35*	B D J M O	J$^{\pi}$: ΔJ=1, E1 1196.8γ to 6$^+$; ΔJ=2, E2 861.4γ to 5$^-$. $T_{1/2}$: from RDM in ^{58}Ni(^{6}Li,pnγ). Other: 0.7 ps *+7−3* from DSAM in (α,2nγ).
4905 *11*			h P	XREF: h(4890) J$^{\pi}$: L(p,t)=(2) suggests (2$^+$) for 4910 *30* level in 1974Hi05.
4933 *11*			P	
4960	(4$^+$,5$^-$)		E	J$^{\pi}$: L(^{6}Li,d)=(4,5).
4997 *11*			P	
5018 *11*			P	J$^{\pi}$: L(p,t)=4 suggests 4$^+$ for 5020 *20* level in 1973Ku05.

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Adopted Levels, Gammas (continued)

^{62}Zn Levels (continued)

E(level)[†]	Jπ[#]	$T_{1/2}$	XREF	Comments
5040 *11*			h P	XREF: h(5090)
5059 *11*	2^+		Gh P	XREF: h(5090) Jπ: L(p,t)=2.
5090	1^-		E h	XREF: h(5090) Jπ: L(^{6}Li,d)=1.
5115 *11*			h P	XREF: h(5090)
5123.88[e] *26*	7^-	2.1 ps *14*	B D K M	XREF: K(5190) Jπ: 1080.4γ ΔJ=2, E2 to 5^-; 1416.8γ (E1) to 6^+. 7^- is also supported from comparison of σ(θ) in (^{12}C,^{10}Be) to DWBA calculations, systematic trend and shell-model calculations, assuming 5190 *50* level in this reaction corresponds to 5124, 7^- level. $T_{1/2}$: <3.5 ps from RDM, >0.7 ps from DSAM in ^{58}Ni(^{6}Li,pnγ).
5131.41[b] *37*	(6^-)	>0.7 ps	B D M	Jπ: ΔJ=1, (M1+E2) 1088.0γ to 5^-; possible bandhead. $T_{1/2}$: from DSAM in ^{58}Ni(^{6}Li,pnγ) for 5124+5132.
5143.70[a] *31*	7^+	0.42 ps *+21−14*	B D M	Jπ: ΔJ=2, E2 1557.2γ to 5^+; 795.8γ to 6^+. $T_{1/2}$: from DSAM in ^{58}Ni(^{6}Li,pnγ).
5151 *11*			P	
5194 *11*			P	
5210.92 *7*	(1^+)		A	Jπ: probable allowed β feeding (log *ft*=5.33) from 0^+ parent; 5210.6γ to 0^+, g.s.
5243 *11*	(0^+)		h P	XREF: h(5270) Jπ: L(p,t)=(0) for 5240 *20* level in 1974Hi05.
5282 *11*			h P	XREF: h(5270)
5313 *13*			h P	XREF: h(5270)
5350 *30*	0^+		E I	E(level): from (^{3}He,n). Jπ: L(^{3}He,n)=0.
5358 *11*	3^-		H P	Jπ: L(p,t)=3.
5387 *11*	(4^+)		P	Jπ: L(p,t)=(4) for 5370 *20* level in 1972Fa08.
5394.08 *32*	(1^+)		A	Jπ: β feeding (log *ft*=6.30) from 0^+ parent; 3051.6γ to 0^+.
5410 *11*			P	
5470			E	
5481.2 *6*	8^+	0.28 ps *+14−7*	B D M	Jπ: ΔJ=2, E2 1773.8γ to 6^+. $T_{1/2}$: from DSAM in ^{58}Ni(^{6}Li,pnγ).
5507.65 *22*	(1^+)		A	Jπ: β feeding (log *ft*=6.01) from 0^+ parent; 5508.0γ to 0^+, g.s.
5560 *20*			P	
5583.77? *40*	(1^+)		A	Jπ: possible β feeding (log *ft*=7.10) from 0^+ parent; possible 5583.5γ to 0^+.
5660 *30*	2^+		H I	E(level): from (^{3}He,n). Jπ: L(^{3}He,n)=2.
5693.2 *8*	$7^{(-)}$		B	Jπ: ΔJ=2, Q γ to 5^-; ΔJ=1, D γ to 6^+.
5790 *30*			H	
5878.6 *8*	$(7^+,8^+)$		B	Jπ: 2171γ to 6^+; 1083γ from $9^{(+)}$.
5910.56[@] *39*	(8^+)		B	Jπ: γ to 6^+; band member.
5919.78 *39*	(1^+)		A	Jπ: probable allowed β feeding (log *ft*=5.75) from 0^+ parent; 5919.2γ to 0^+, g.s.
6030 *30*			H	
6081.55[c] *33*	9^-	3.9 ps *32*	B D	Jπ: ΔJ=2, E2 1176.7γ to 7^-; band member. $T_{1/2}$: $T_{1/2}$<7 ps from RDM, and $T_{1/2}$>0.7 ps from DSA in ^{58}Ni(^{6}Li,pnγ).

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Adopted Levels, Gammas (continued)

^{62}Zn Levels (continued)

E(level)[†]	Jπ[#]	XREF	Comments
6113.50[b] *34*	(8⁻)	B D	Jπ: ΔJ=2, Q γ to (6⁻); ΔJ=1, D+Q γ to 7⁻; band member.
6300 *50*	(8⁺)	K	Jπ: from comparison of σ(θ) in (^{12}C,^{10}Be) to DWBA calculations, systematic trend and shell-model calculations.
6304.4 *5*	7(+)	B	Jπ: ΔJ=2, Q γ to 5⁺; γ to 7⁺.
6330 *30*		H	
6342.8[d] *6*	(8⁻)	B	Jπ: ΔJ=1, D+Q γ to 7⁻; band member.
6360 *20*		P	
6.4×10^3 *3*		I	
6444.7[&] *9*	(8⁺)	B	Jπ: ΔJ=2, Q γ to 6⁺; band member.
6590 *20*		P	
6630.92[e] *41*	9(−)	B D H	XREF: H(6610) Jπ: ΔJ=2, Q γ to 7⁻; γ to 9⁻; band member.
6964.6[a] *6*	9(+)	B	Jπ: ΔJ=2, Q γ to 7⁺; γ to 8⁺; band member.
7.00×10^3 *15*		G	
7024.2 *8*	(9⁻)	B	Jπ: ΔJ=(2), (Q) γ to 7⁻; ΔJ=1, D γ to 8⁺.
7200		P	
7340 *20*		P	
7400		P	
7422.2[c] *4*	(11⁻)	B	Jπ: ΔJ=2, Q γ to 9⁻.
7422.8[b] *4*	(10⁻)	B D	Jπ: ΔJ=2, Q γ to (8⁻); ΔJ=1, D+Q γ to 9(−); band member.
7444.8[f] *5*	9(−)	B	Jπ: ΔJ=0, D γ to 9⁻; γ to (8⁻); band member.
7499.1 *7*	(10⁺)	B	Jπ: ΔJ=2, Q γ to 8⁺.
7550 *20*	(8⁺)	K P	XREF: K(7540) Jπ: from comparison of σ(θ) in (^{12}C,^{10}Be) to DWBA calculations, systematic trend and shell-model calculations.
7738.9[d] *5*	(10⁻)	B	Jπ: ΔJ=2, Q γ to (8⁻); ΔJ=1, D+Q γ to 9(−); band member.
7975.47[h] *43*	9(+)	B	Jπ: ΔJ=2, Q γ to 7⁺; ΔJ=0, D γ to 9⁻; band member.
7984.9 *7*	(10⁺)	B	Jπ: ΔJ=1, D γ to (9⁻); ΔJ=2, Q γ from 12⁺.
8300 *50*	(6⁺)	K	Jπ: from comparison of σ(θ) in (^{12}C,^{10}Be) to DWBA calculations, systematic trend and shell-model calculations.
8436.96[g] *50*	(10⁺)	B	Jπ: ΔJ=1, D γ to 9⁻; band member.
8479.91 *50*	(10)	B	Jπ: ΔJ=1, D γ to (11⁻); γ to 9⁻.
8489.7[e] *8*	(11⁻)	B	Jπ: ΔJ=(2), (Q) γ to 9(−); band member.
9024.4[b] *5*	(12⁻)	B	Jπ: ΔJ=2, Q γ to (10⁻); ΔJ=1, D+Q γ to (11⁻); band member.
9047.76[h] *41*	(11⁺)	B	Jπ: ΔJ=2, Q γ to 9(+); ΔJ=1, D+Q γ to (10⁺); band member.
9083.4[f] *5*	(11⁻)	B	Jπ: ΔJ=2, Q γ to 9(−); γ to (11⁻); band member.
9213.7[c] *5*	(13⁻)	B	Jπ: ΔJ=2, Q γ to (11⁻); band member.
9464.67[g] *42*	(12⁺)	B	Jπ: ΔJ=2, Q γ to (10⁺); ΔJ=1, D+Q γ to (11⁺); band member.
9681.7[d] *11*	(12⁻)	B	Jπ: ΔJ=2, Q γ to (10⁻); γ to (11⁻); band member.
9800		P	
9822.8[j] *7*	(12⁺)	B	Jπ: ΔJ=1, D γ to (11⁻); band member.
9865.7 *9*	(11⁺)	B	Jπ: ΔJ=0, D γ to (11⁻); γ from 13⁺.
9959.73[h] *49*	(13⁺)	B	Jπ: ΔJ=2, Q γ to (11⁺); ΔJ=1, D γ to (12⁻); band member.
10241.7[m] *6*	(11⁺)	B	Jπ: ΔJ=1, D+Q γ to (10⁺); ΔJ=0, D γ to (11⁻); band member.
10300		P	
10374.58[g] *49*	(14⁺)	B	Jπ: ΔJ=2, Q γ to (12⁺); ΔJ=1, D+Q γ to (13⁺); band member.
10456.8[e] *12*	(13⁻)	B	Jπ: ΔJ=2, Q γ to (11⁻); band member.
10630.56[l] *49*	(12⁺)	B	Jπ: ΔJ=2, Q γ to (10⁺); ΔJ=1, D γ to (11⁻); band member.
10725.3[b] *7*	(14⁻)	B	Jπ: ΔJ=2, Q γ to (12⁻); ΔJ=1, D+Q γ to (13⁻); band member.
10800		P	

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Adopted Levels, Gammas (continued)

^{62}Zn Levels (continued)

E(level)[†]	Jπ[#]	XREF	Comments
11177.76[m] 49	(13+)	B	Jπ: ΔJ=2, Q γ to (11+); ΔJ=1, D+Q γ to (12+); band member.
11545.8[j] 6	(14+)	B	Jπ: ΔJ=2, Q γ to (12+); ΔJ=1, D+Q γ to (13−); band member.
11651.1[o] 6	(13−)	B	Jπ: ΔJ=2, Q γ to (11−); γ to (13−); band member.
11751.08[l] 50	(14+)	B	Jπ: ΔJ=2, Q γ to (12+); ΔJ=1, D+Q γ to (13+); band member.
11786.6[h] 9	(15+)	B	Jπ: ΔJ=2, Q γ to (13+); band member.
11961.0[g] 6	(16+)	B	Jπ: ΔJ=2, Q γ to (14+); band member.
12046.1[d] 15	(14−)	B	Jπ: γs to (12−) and (13−); band member.
12276.6[i] 7	(15+)	B	Jπ: ΔJ=1, D+Q γ to (14+); band member.
12329.1[n] 5	(14−)	B	Jπ: ΔJ=1, D+Q γ to (13−); band member.
12531.5[m] 5	(15+)	B	Jπ: ΔJ=2, Q γ to (13+); ΔJ=1, D+Q γ to (14+); band member.
12812.3[k] 6	(15−)	B	Jπ: ΔJ=1, D γ to (14+); band member.
12831.4[e] 19	(15−)	B	Jπ: γ to (13−); band member.
12992.6[o] 5	(15−)	B	Jπ: ΔJ=2, Q γ to (13−); ΔJ=1, D+Q γ to (14−); band member.
13156.2[j] 7	(16+)	B	Jπ: ΔJ=2, Q γ to (14+); band member.
13230.9[l] 6	(16+)	B	Jπ: ΔJ=2, Q γ to (14+); ΔJ=1, D+Q γ to (15+); band member.
13400		P	
13496.5[‡s] 21	(15−)	B	Jπ: γ from (17−); band member.
13725.9[n] 5	(16−)	B	Jπ: ΔJ=2, Q γ to (14−); ΔJ=1, D+Q γ to (15−); band member.
13782.3[i] 7	(17+)	B	Jπ: ΔJ=2, Q γ to (15+); ΔJ=1, D+Q γ to (16+); band member.
13964.4 12	(16+)	B	Jπ: ΔJ=(2), (Q) γ to (14+).
14119.0[m] 6	(17+)	B	Jπ: ΔJ=2, Q γ to (15+); ΔJ=1, D+Q γ to (16+); band member.
14321.9[‡] 37		B	Jπ: γ from (17) suggests (15,16,17).
14343.8 12	(16−)	B	Jπ: ΔJ=(2), (Q) γ to (14−).
14429.8[x] 18	(16+)	B	Jπ: ΔJ=(2), (Q) γ to (12−); band member.
14444.8[k] 6	(17−)	B	Jπ: ΔJ=2, Q γ to (15−); ΔJ=1, D+Q γ to (16−); band member.
14489.4[r] 10	(15−)	B	Jπ: ΔJ=1, D γ to (14+); γ to (13−); band member.
14540.8[o] 6	(17−)	B	Jπ: ΔJ=2, Q γ to (15−); ΔJ=1, D+Q γ to (16−); band member.
14567.8 22	(15)	B	Jπ: ΔJ=1, D γ to (14−).
14610.5 29		B	Jπ: (14,15,16+) from γ to (14+).
14644.5 14	(16+)	B	Jπ: γ to (15+); ΔJ=2, Q γ from 18+.
14831.1 13	(16+)	B	Jπ: γ to (15+); ΔJ=2, Q γ from 18+.
14984.5[‡] 14		B	Jπ: γ from (18+) suggests (16+,17,18).
15020.7 19	(17)	B	Jπ: ΔJ=1, D γ to (16+).
15040.1 11	(16+)	B	Jπ: γ to (14+); ΔJ=2, Q γ from 18+.
15042.6[l] 7	(18+)	B	Jπ: ΔJ=2, Q γ to (16+); ΔJ=1, D+Q γ to (17+); band member.
15076.7[s] 11	(17−)	B	Jπ: ΔJ=1, D γ to (16+); band member.
15081.1[q] 8	(16−)	B	Jπ: ΔJ=2, Q γ to (14−); γ to (15+); band member.
15281.2 14	(17+)	B	Jπ: ΔJ=2, Q γ to (15+); ΔJ=1, D+Q γ to (16+).
15294.1 16	(18+)	B	Jπ: γ to (16+); γ from 20+.
15407.5 17	(17+)	B	Jπ: γ to (15+); γ from 19+.
15414.0[n] 6	(18−)	B	Jπ: ΔJ=2, Q γ to (16−); ΔJ=1, D+Q γ to (17−); band member.
15482.3[‡4] 30	(16+)	B	Jπ: γ from (18+); band member.
15682.1 25		B	Jπ: (16,17,18+) from γ to (16+).
15704.5[k] 7	(19−)	B	Jπ: ΔJ=2, Q γ to (17−); band member.
15716.0 15	(17+)	B	Jπ: γs to (15+) and (16+).
15727.3 19		B	Jπ: (16,17,18−) from γ to (16−).
15750.1[r] 8	(17−)	B	Jπ: ΔJ=2, Q γ to (15−); ΔJ=1, D γ to (16+); band member.
15796.0[‡v] 42	(16+)	B	Jπ: γ from (18+); band member.
15830.1[y] 28	(17)	B	Jπ: ΔJ=1, D γ to (16+); band member.
15869.7[l] 20	(17−)	B	Jπ: γ to (16+); band member.
16101.6[u] 16	(17−)	B	Jπ: ΔJ=1, D γ to (16+); band member.

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Adopted Levels, Gammas (continued)

^{62}Zn Levels (continued)

E(level)[†]	Jπ[#]	$T_{1/2}$	XREF	Comments
16234.3 *33*	(17)		B	Jπ: ΔJ=1, D γ to (16+).
16323.2[x] *17*	(18+)		B	Jπ: γ to (16+); band member.
16365.1[m] *9*	(19+)		B	Jπ: ΔJ=2, Q γ to (17+); ΔJ=1, D(+Q) γ to (18+); band member.
16369.6 *31*	(17)		B	Jπ: γ from (19) suggests (17,18,19).
16372.7[o] *6*	(19−)		B	Jπ: ΔJ=2, Q γ to (17−); ΔJ=1, D+Q γ to (18−); band member.
16413.9 *27*			B	Jπ: (16,17,18+) from γ to (16+).
16443.9[w] *27*	(17)		B	Jπ: γ to (16+); band member.
16469.6 *16*	(18+)		B	Jπ: ΔJ=2, Q γ to (16+).
16500.4[q] *8*	(18−)		B	Jπ: ΔJ=2, Q γ to (16−); γ to (17−); band member.
16574.0[‡3] *20*	(17−)		B	Jπ: γ from (19−); band member.
16677.8[‡] *32*			B	Jπ: γ from (19) suggests (17,18,19).
16715.0 *10*	(18+)		B	Jπ: ΔJ=2, Q γ to (16+); γ to (17−).
16817.2 *11*	(18+)		B	Jπ: ΔJ=2, Q γ to (16+); γ to (17−).
16874.2 *24*			B	Jπ: (17,18,19+) from γ to (17+).
16901.0[s] *11*	(19−)		B	Jπ: ΔJ=2, Q γ to (17−); γ to (19−); band member.
17035.2 *33*			B	Jπ: (16,17,18+) from γ to (16+).
17318.2[‡] *22*	(18−)		B	Jπ: γ from (20−).
17338.5[r] *9*	(19−)		B	Jπ: ΔJ=2, Q γ to (17−); ΔJ=1, D+Q γ to (18−); band member.
17350.2[4] *28*	(18+)		B	Jπ: ΔJ=2, Q γ to (16+); band member.
17365.1 *18*	(18−)		B	Jπ: γ to (16−).
17400.1 *28*			B	Jπ: (17,18,19+) from γ to (17+).
17407.5[2] *16*	(18−)		B	Jπ: ΔJ=1, D+Q γ to (17−); γ to (16−); band member.
17454.0[y] *31*			B	
17477.8[n] *7*	(20−)		B	Jπ: ΔJ=2, Q γ to (18−); ΔJ=1, D+Q γ to (19−); band member.
17488.7 *15*	(19+)		B	Jπ: ΔJ=2, Q γ to (17+).
17508.6[‡] *21*	(18−)		B	Jπ: γ from (20−) suggests (18,19,20).
17578.7[1] *17*	(19−)		B	Jπ: ΔJ=2, Q γ to (17−); band member.
17582.4[l] *11*	(20+)		B	Jπ: ΔJ=2, Q γ to (18+); ΔJ=1, D+Q γ to (19+); band member.
17646.3[v] *39*	(18+)		B	Jπ: γ to (16+); band member.
17665.9 *26*			B	Jπ: (17,18,19+) from γ to (17+).
17696.7 *17*	(19+)		B	Jπ: γ to (17+); Q γ from 21+.
17748.8 *32*			B	Jπ: (17,18,19+) from γ to (17+).
17764.1[u] *17*	(19−)		B	Jπ: ΔJ=2, Q γ to (17−); band member.
17843.7 *43*			B	Jπ: (16,17,18+) from γ to (16+).
18020.3 *35*			B	Jπ: (17,18,19+) from γ to (17+).
18239.9 *14*	(20−)		B	Jπ: ΔJ=1, D+Q γ to (19−).
18286.5[q] *9*	(20−)		B	Jπ: ΔJ=2, Q γ to (18−); ΔJ=1, D+Q γ to (19−); band member.
18.4×10^3 *1*		11.6 MeV *2*	C	Energy and width at E(^{30}Si)=75 MeV from 2021Go15 for Giant-dipole resonance (GDR). Energy and width at E(^{30}Si)=98 MeV are: 18.1 MeV *1* and 12.6 MeV *2*, respectively.
18416.1[3] *16*	(19−)		B	Jπ: γs to (17−), (18−) and (18+); band member.
18502.0[o] *8*	(21−)		B	Jπ: ΔJ=2, Q γ to (19−); ΔJ=1, D+Q γ to (20−); band member.
18505.9[w] *27*	(19)		B	Jπ: γs to (17) and (17−); band member.
18516.4[t] *25*	(19+)		B	Jπ: ΔJ=2, Q γ to (17+); band member.
18592.7 *37*			B	Jπ: (17,18,19+) from γ to (17+).

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Adopted Levels, Gammas (continued)

^{62}Zn Levels (continued)

E(level)[†]	Jπ[#]	XREF	Comments
18677.1[p] 11	(20+)	B	Jπ: ΔJ=2, Q γ to (18+); γ to (19−); band member.
18724.8[‡z] 27	(19+)	B	Jπ: γ from (21+); band member.
18759.0[x] 18	(20+)	B	Jπ: γ to (18−); band member.
19093.1[s] 16	(21−)	B	Jπ: ΔJ=2, Q γ to (19−); band member.
19177.0 25		B	Jπ: (19,20,21−) from γ to (19−).
19305.1[r] 11	(21−)	B	Jπ: ΔJ=2, Q γ to (19−); γ to (20−); band member.
19399.9[2] 14	(20−)	B	Jπ: ΔJ=(2), (Q) γ to (18−); γ to (19−); band member.
19477.1[4] 28	(20+)	B	Jπ: ΔJ=2, Q γ to (18+); band member.
19486.0 18	(21−)	B	Jπ: ΔJ=2, Q γ to (19−).
19498.1[m] 25	(21+)	B	Jπ: γ to (19+); band member.
19599.4[‡] 21	(20−)	B	Jπ: γ from 22− suggest (20−,21−,22−).
19676.6[n] 9	(22−)	B	Jπ: ΔJ=2, Q γ to (20−); γ to (21−); band member.
19677.4[y] 36		B	
19702.7[v] 41	(20+)	B	Jπ: ΔJ=2, Q γ to (18+); band member.
19757.1[1] 17	(21−)	B	Jπ: ΔJ=2, Q γ to (19−); band member.
19773.9 39		B	Jπ: (18,19,20+) from γ to (18+).
19777.7[u] 17	(21−)	B	Jπ: ΔJ=2, Q γ to (19−); band member.
20026.8 24		B	Jπ: (19,20,21−) from γ to (19−).
20086.1 17	(21+)	B	Jπ: ΔJ=2, Q γ to (19+).
20432.3[t] 26	(21+)	B	Jπ: ΔJ=2, Q γ to (19+); band member.
20441.8[q] 12	(22−)	B	Jπ: ΔJ=2, Q γ to (20−); γ to (21−); band member.
20473.5[3] 16	(21−)	B	Jπ: ΔJ=2, Q γ to (19−); ΔJ=1, D γ to (20−); band member.
20620.4[‡] 25	(21+)	B	Jπ: γ from (23+) suggest that (21+,22+,23+).
20658.5[z] 24	(21+)	B	Jπ: γ to (19+); band member.
20782.0 42		B	Jπ: (19,20,21−) from γ to (19−).
20851.3[w] 33	(21)	B	Jπ: γ to (19); band member.
20856.9[p] 16	(22+)	B	Jπ: ΔJ=2, Q γ to (20+); band member.
21036.8[o] 10	(23−)	B	Jπ: ΔJ=2, Q γ to (21−); ΔJ=1, D+Q γ to (22−); band member.
21098[‡] 6		B	Jπ: (20,21,22) from γ from (22).
21189.9 43		B	Jπ: (19,20,21−) from γ to (19−).
21197.1 32	(21)	B	Jπ: ΔJ=1, D γ to (20−).
21316.2 30	(21)	B	Jπ: ΔJ=1, D γ to (20−).
21401.4 30	(22−)	B	Jπ: ΔJ=(2), (Q) γ to (20−).
21403.3[x] 27	(22+)	B	Jπ: γ to (20+); band member.
21468.1 28		B	Jπ: (20,21,22+) from γ to (20+).
21602.5 47	(21−)	B	Jπ: γ to (19−); D γ from (22).
21614.4[2] 16	(22−)	B	Jπ: ΔJ=2, Q γ to (20−); band member.
21682.6[r] 14	(23−)	B	Jπ: ΔJ=2, Q γ to (21−); γ to (22−); band member.
21686.9[s] 21	(23−)	B	Jπ: ΔJ=2, Q γ to (21−); band member.
21824.8[‡5] 50		B	Jπ: (22,23,24) from γ from (22).
21851.9[4] 30	(22+)	B	Jπ: ΔJ=2, Q γ to (20+); band member.
22029.7[v] 44	(22+)	B	Jπ: ΔJ=2, Q γ to (20+); band member.
22127.1[1] 17	(23−)	B	Jπ: ΔJ=2, Q γs to (21−); band member.
22243.6[u] 19	(23−)	B	Jπ: ΔJ=2, Q γ to (21−); band member.
22567.8[t] 28	(23+)	B	Jπ: ΔJ=2, Q γ to (21+); band member.
22741.5 41		B	Jπ: (21,22,23−) from γ to (21−).
22782.5[3] 18	(23−)	B	Jπ: ΔJ=2, Q γ to (21−); γ to (22−); band member.
22794.3 22	(23+)	B	Jπ: ΔJ=2, Q γ to (21+).
22822.6 34		B	Jπ: (21,22,23−) from γ to (21−).
22866.0[z] 23	(23+)	B	Jπ: ΔJ=2, Q γs to (21+); band member.
23024.4 46		B	
23028.6[6] 25	(23−)	B	Jπ: ΔJ=2, Q γ to (21−); band member.

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Adopted Levels, Gammas (continued)

^{62}Zn Levels (continued)

E(level)[†]	Jπ[#]	$T_{1/2}$	XREF	Comments
23071.5[q] *16*	(24⁻)		B	Jπ: ΔJ=2, Q γ to (22⁻); γ to (23⁻); band member.
23079.4 *27*			B	Jπ: (22,23,24⁻) from γ to (22⁻).
23179.2[n] *16*	(24⁻)		B	Jπ: ΔJ=2, Q γ to (22⁻); γ to (23⁻); band member.
23184.4 *39*			B	Jπ: (21,22,23⁻) from γ to (21⁻).
23274 *5*	(22)		B	Jπ: γ from (24) suggest that (22,23,24).
23341.6[p] *22*	(24⁺)		B	Jπ: ΔJ=2, Q γ to (22⁺); band member.
23376.6[5] *48*	(22)		B	Jπ: ΔJ=1, D γ to (21⁻); band member.
23408.0 *44*			B	Jπ: (21,22,23⁻) from γ to (21⁻).
23467.0[w] *39*	(23)		B	Jπ: γ to (21); band member.
23625.1[x] *33*			B	Jπ: (22,23,24⁺) from γ to (22⁺); band member.
23761.6 *45*			B	Jπ: (21,22,23⁻) from γ to (21⁻).
24053.7[2] *18*	(24⁻)		B	Jπ: ΔJ=2, Q γ to (22⁻); band member.
24307.9 *38*	(24⁻)		B	Jπ: ΔJ=2, Q γ to (22⁻).
24468.3[4] *33*	(24⁺)		B	Jπ: ΔJ=2, Q γ to (22⁺); band member.
24607.3[r] *22*	(25⁻)		B	Jπ: ΔJ=2, Q γ to (23⁻); band member.
24692.1[v] *47*	(24⁺)		B	Jπ: ΔJ=2, Q γ to (22⁺); band member.
24725.6[s] *28*	(25⁻)		B	Jπ: ΔJ=2, Q γ to (23⁻); band member.
24912.7[1] *24*	(25⁻)		B	Jπ: ΔJ=2, Q γ to (23⁻); band member.
25145.2[t] *29*	(25⁺)		B	Jπ: ΔJ=2, Q γ to (23⁺); band member.
25162.1[u] *25*	(25⁻)		B	Jπ: ΔJ=2, Q γ to (23⁻); band member.
25338.5[z] *23*	(25⁺)		B	Jπ: ΔJ=2, Q γs to (23⁺); band member.
25347.1[3] *21*	(25⁻)		B	Jπ: ΔJ=2, Q γ to (23⁻); band member.
25402.1[5] *50*	(24)		B	Jπ: ΔJ=2, Q γs to (22); band member.
25438.3 *39*			B	Jπ: (23,24,25⁻) from γ to (23⁻).
25478.9[6] *24*	(25⁻)		B	Jπ: γ to (23⁻); band member.
25660.4 *28*	(25⁻)		B	Jπ: ΔJ=2, Q γ to (23⁻).
25880.3 *38*			B	Jπ: (23,24,25⁻) from γ to (23⁻).
25989.7 *40*			B	Jπ: (23,24,25⁻) from γ to (23⁻).
26173.9[p] *29*	(26⁺)		B	Jπ: ΔJ=2, Q γ to (24⁺); band member.
26228.2 *42*			B	Jπ: (23,24,25⁻) from γ to (23⁻).
26322.9[q] *24*	(26⁻)		B	Jπ: ΔJ=2, Q γ to (24⁻); band member.
26461.6[w] *43*	(25)		B	Jπ: γ to (23); band member.
26743.7[2] *22*	(26⁻)		B	Jπ: ΔJ=2, Q γ to (24⁻); band member.
27316.9[4] *37*	(26⁺)		B	Jπ: ΔJ=2, Q γ to (24⁺); band member.
27718[5] *5*	(26)		B	Jπ: ΔJ=2, Q γ to (24); band member.
27764[v] *6*	(26⁺)		B	Jπ: γ to (24⁺); band member.
28162.7[3] *24*	(27⁻)		B	Jπ: ΔJ=(2), (Q) γ to (25⁻); band member.
28205.7[z] *28*	(27⁺)		B	Jπ: ΔJ=2, Q γ to (25⁺); band member.
28230.0[r] *40*	(27⁻)		B	Jπ: ΔJ=2, Q γ to (25⁻); band member.
28244.8[6] *25*	(27⁻)		B	Jπ: γs to (25⁻); band member.
28369.2[1] *34*	(27⁻)		B	Jπ: ΔJ=(2), (Q) γ to (25⁻); band member.
28555.2[s] *42*	(27⁻)		B	Jπ: γ to (25⁻); band member.
28745.4[u] *42*	(27⁻)		B	Jπ: γ to (25⁻); band member.
29473.8[p] *39*	(28⁺)		B	Jπ: ΔJ=2, Q γ to (26⁺); band member.
29.5×10^3		6.7 MeV *3*	R	$T_{1/2}$: for GDR for T=0.9 MeV with SLO model. Others: Γ varies from 5.5 to 7.9 MeV for different model parameters.
29682.6[2] *28*	(28⁻)		B	Jπ: ΔJ=2, Q γ to (26⁻); band member.
29818[w] *5*	(27)		B	Jπ: γ to (25); band member.
30370[5] *6*	(28)		B	Jπ: ΔJ=2, Q γ to (26); band member.
30434.7[4] *43*	(28⁺)		B	Jπ: ΔJ=(2), (Q) γ to (26⁺); band member.
30508.0[q] *44*	(28⁻)		B	Jπ: γ to (26⁻); band member.

Continued on next page (footnotes at end of table)

Adopted Levels, Gammas (continued)

^{62}Zn Levels (continued)

E(level)[†]	Jπ[#]	$T_{1/2}$	XREF	Comments
31213.0[3] *28*	(29⁻)		B	Jπ: γs to (27⁻); band member.
31397.8[6] *34*	(29⁻)		B	Jπ: γ to (27⁻); band member.
31542.7[z] *40*	(29⁺)		B	Jπ: γ to (27⁺); band member.
32916.7[2] *38*	(30⁻)		B	Jπ: γ to (28⁻); band member.
33360.6[p] *50*	(30⁺)		B	Jπ: γ to (28⁺); band member.
33458[5] *6*	(30)		B	Jπ: γ to (28); band member.
33791 *5*	(30⁺)		B	Jπ: γ to (28⁺); band member.
33798.0[4] *50*	(30⁺)		B	Jπ: γ to (28⁺); band member.
34600.7[3] *38*	(31⁻)		B	Jπ: γ to (29⁻); band member.
35339[z] *6*	(31⁺)		B	Jπ: γ to (29⁺); band member.
36496.6[2] *49*	(32⁻)		B	Jπ: γ to (30⁻); band member.
36897[5] *7*	(32)		B	Jπ: γ to (30); band member.
38366[3] *5*	(33⁻)		B	Jπ: γ to (31⁻); band member.
40455[2] *6*	(34⁻)		B	Jπ: γ to (32⁻); band member.
40730 *6*	(34⁻)		B	Jπ: γ to (32⁻); band member.
40.8×10^3		7.0 MeV *3*	R	$T_{1/2}$: for GDR for T=1.5 MeV with SLO model. Others: Γ varies from 6.6 to 8.6 MeV for different model parameters.
42519[3] *7*	(35⁻)		B	Jπ: γ to (33⁻); band member.

[†] From least-squares fit to the Eγ data from γ-ray studies. Reduced χ^2=0.61, with only two Eγ values poorly fitted: 3425.0γ from 3424 level to the g.s., and 2870.5γ from 5210 level. Energies of levels populated only in particle-transfer data, are from averages of available values of comparable precision.

[‡] No deexciting γ ray(s) from this level.

[#] Unless otherwise specified, J^π assignments are from γγ(θ)(DCO) data, deexcitation pattern, band assignments, and comparison with cranked-shell model calculations in 2012Ge04 from the reaction: ^{28}Si(^{36}Ar,2pγ),^{40}Ca(^{28}Si,α2pγ). Above 6.1 MeV excitation, except for three levels populated in (^{12}C,^{10}Be), all the assignments are from ^{28}Si(^{36}Ar,2pγ),^{40}Ca(^{28}Si,α2pγ). Most of these are placed in parentheses, as in evaluators′ opinion, strong arguments for definite assignments seem lacking in the absence of definite electric or magnetic nature of multipolarity assignments from γ-ray polarization data, or level lifetime measurements. Further, ascending spins with increasing excitation energy are assumed due to the yrast nature of population of levels in heavy-ion in-beam γ-ray spectroscopy. Values of L-transfers are from 0^+ targets in all the particle-transfer reactions given here.

[@] Band(A): g.s., normal deformed, ND-1 band. Configuration=[00,00].

[&] Band(B): Normal-deformed, ND-2 band,α=0.

[a] Band(b): Normal-deformed, ND-2 band,α=1.

[b] Band(C): Normal-deformed, ND-3 band,α=0. Configuration=[00,01].

[c] Band(c): Normal-deformed, ND-3 band,α=1. Configuration=[00,01].

[d] Band(D): Normal-deformed, ND-4 band,α=0.

[e] Band(d): Normal-deformed, ND-4 band,α=1.

[f] Band(E): Normal-deformed, ND-5 band,α=1.

[g] Band(F): Normal-deformed, ND-6 band,α=0. Configuration=[01,$01^{(+)}$].

[h] Band(f): Normal-deformed, ND-6 band,α=1. Configuration=[01,$01^{(+)}$].

[i] Band(G): Normal-deformed, ND-7 band,α=1. Configuration=[$01^{(+)}$,$01^{(-)}$].

[j] Band(h): Normal-deformed, ND-8 band. Configuration=[00,02].

[k] Band(i): Normal-deformed, ND-9 band. Configuration=[$01^{(+)}$,02].

[l] Band(J): Terminating, TB-1 band,α=0. Configuration=[11,$01^{(+)}$].

[m] Band(j): Terminating, TB-1 band,α=1. Configuration=[11,$01^{(+)}$].

[n] Band(K): Terminating, TB-2 band,α=0. Configuration=[11,02].

[o] Band(k): Terminating, TB-2 band,α=1. Configuration=[11,02].

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Adopted Levels, Gammas (continued)

^{62}Zn Levels (continued)

[p] Band(H): Well-deformed, WD-1 band. Configuration=[22,02].
[q] Band(L): Well-deformed, WD-2 band,α=0. Configuration=[11,12$^{(+)}$].
[r] Band(l): Well-deformed, WD-2 band,α=1. Configuration=[11,12$^{(+)}$].
[s] Band(I): Well-deformed, WD-3 band. Configuration=[22,01$^{(+)}$].
[t] Band(M): Well-deformed, WD-4 band. Configuration=[12$^{(+)}$,02].
[u] Band(N): Well-deformed, WD-6 band. Configuration=[11,12$^{(+)}$].
[v] Band(O): Well-deformed, WD-8 band. Configuration=[11,13].
[w] Band(P): Well-deformed, WD-9 band.
[x] Band(Q): Well-deformed, WD-10 band. Configuration=[21$^{(+)}$,01$^{(+)}$].
[y] Band(R): Well-deformed, WD-11 band.
[z] Band(S): Well-deformed, WD-5 band. Configuration=[22,12$^{(+)}$].
[1] Band(T): Well-deformed, WD-7 band. Configuration=[21$^{(+)}$,02].
[2] Band(U): SD-1 band,α=0. Configurations=[22,23]. Band intensity ≈1%; Q(transition)=2.7 *+7−5* (1997Sv02), corresponding to β_2=0.45 *+10−7*. Other configuration=$\nu f_{7/2}^{-2} \nu g_{9/2}^{+2}$ with possible contribution from configuration=$\nu f_{7/2}^{-2} \nu g_{9/2}^{+3}$ (1997Sv02).
[3] Band(V): SD-2 band,α=1. Configurations=[22,23].
[4] Band(W): SD-3 band Configurations=[22,24].
[5] Band(X): SD-4 band.
[6] Band(Y): SD-5 band. Configuration=[22,13].

Adopted Levels, Gammas (continued)

γ(^{62}Zn)

Additional information 2.

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	Mult.[#]	δ	α[@]	Comments
953.86	2$^+$	953.75 *10*	100	0.0	0$^+$	E2		3.30×10^{-4} *5*	B(E2)(W.u.)=16.8 *+13−11* E_γ: weighted average of 953.7 *1* in ε decay; 953.9 *3* in (^{36}Ar,2pγ); 953.5 *3* in (^{6}Li,pnγ); 953.8 *1* in (^{3}He,2nγ); 953.8 *5* in (α,2nγ); 953.9 *5* in (p,2nγ). Other: 955 *2* in ^{12}C(^{63}Ga,^{62}Zn′γ).
1804.66	2$^+$	850.75 *10*	100.0 *30*	953.86	2$^+$	M1+E2	−3.7 *+7−10*	4.32×10^{-4} *7*	B(M1)(W.u.)=5.0×10^{-4} *+27−20*; B(E2)(W.u.)=16.8 *+33−25* E_γ: weighted average of 850.7 *1* in ε decay; 850.9 *3* in (^{36}Ar,2pγ); 850.6 *5* in (^{6}Li,pnγ); 850.8 *1* in (^{3}He,2nγ); 850.7 *5* in (α,2nγ); 850.5 *5* in (p,2nγ). δ: weighted average of −3.6 *+7−10* from γγ(θ) in (^{3}He,2nγ); −5.1 *+29−34* from γ(θ) in (^{6}Li,pnγ); and −5.1 *+29−34* from γγ(θ) in (^{62}Ga β$^-$ decay). Others: −1.2 *+5−9* from γ(θ) in (α,2nγ); −1.2 *+4−5* from γ(θ) in (p,2nγ). From systematics of δ(E2/M1) values for γ transition from second 2$^+$ to the first 2$^+$, larger δ value i.e. dominant mult=E2 is preferred by evaluators.
		1804.68 *10*	83.6 *34*	0.0	0$^+$	E2		3.02×10^{-4} *4*	B(E2)(W.u.)=0.35 *+7−5* E_γ: weighted average of 1804.6 *1* in ε decay; 1805.0 *5* in (^{36}Ar,2pγ); 1805.1 *4* in (^{6}Li,pnγ); 1804.8 *2* in (^{3}He,2nγ); 1805.0 *5* in (α,2nγ); 1804.6 *5* in (p,2nγ). I_γ: weighted average of 85.2 *34* in ε decay; 87 *5* in (^{36}Ar,2pγ); 78 *4* in (^{6}Li,pnγ); 89 *9* in (^{3}He,2nγ). Others: 65 *7* in (α,2nγ); 64 *7* in (p,2nγ). Weighted average of all the six values is 80.3 *36*.
2186.03	4$^+$	1232.13 *10*	100	953.86	2$^+$	E2		1.97×10^{-4} *3*	B(E2)(W.u.)=26 *+9−8* E_γ: weighted average of 1231.9 *3* in (^{36}Ar,2pγ); 1231.9 *3* in (^{6}Li,pnγ); 1232.2 *1* in (^{3}He,2nγ); 1232.2 *5* in (α,2nγ); 1231.7 *5* in (p,2nγ). Other: 1229 *4* in ^{12}C(^{63}Ga,^{62}Zn′γ).
2342.37	0$^+$	1388.4 *1*	100	953.86	2$^+$				
2384.49	3$^+$	580.0 *2*	73.1 *22*	1804.66	2$^+$	(M1+E2)	−1.8 *3*	0.00115 *4*	B(M1)(W.u.)=0.007 *+8−3*; B(E2)(W.u.)=1.1×10^2 *+12−5* E_γ: weighted average of 580.1 *2* in (^{36}Ar,2pγ); 580.0 *5* in (^{6}Li,pnγ); 579.8 *2* in (^{3}He,2nγ); 579.9 *5* in (α,2nγ); 580.0 *5* in (p,2nγ). I_γ: weighted average of 74.0 *22* in (^{36}Ar,2pγ); 73 *5* in

From ENSDF

$^{62}_{30}Zn_{32}$-14

Adopted Levels, Gammas (continued)

γ(^{62}Zn) (continued)

E_i(level)	J_i^π	E_γ †	I_γ †	E_f	J_f^π	Mult.#	δ	α@	Comments
									(^{6}Li,pnγ); 64 *7* in (^{3}He,2nγ).
									δ: weighted average of −1.1 *7* from γ(θ) in (^{6}Li,pnγ); −1.9 *+3−5* from γγ(θ) in (^{3}He,2nγ). Others: −0.5 *1* from γ(θ) in (p,2nγ); ≈−0.15 or ≈−2.1 from DCO in (^{36}Ar,2pγ),
2384.49	3+	1430.7 *2*	100 *5*	953.86	2+	(M1+E2)	+3.4 *+9−6*	1.94×10^{-4} *3*	B(M1)(W.u.)=2.0×10^{-4} *+25−10*; B(E2)(W.u.)=2.0 *+22−9* E_γ: weighted average of 1430.6 *6* in (^{36}Ar,2pγ); 1430.6 *8* in (^{6}Li,pnγ); 1430.7 *2* in (^{3}He,2nγ). δ: from γγ(θ) in (^{3}He,2nγ). Other: +0.30 *+6−7* from DCO in (^{36}Ar,2pγ),.
2743.55	4+	359.3 *2*	10.2 *31*	2384.49	3+	(M1+E2)	−0.20 *12*	0.00252 *19*	B(M1)(W.u.)=0.0108 *33*; B(E2)(W.u.)=6 *+9−5* E_γ: weighted average of 359.5 *2* in (^{36}Ar,2pγ); 359.1 *2* in (^{6}Li,pnγ); 359.2 *4* in (^{3}He,2nγ). I_γ: unweighted average of 9.88 *29* in (^{36}Ar,2pγ); and 15.8 *9* in (^{6}Li,pnγ); 5 *2* in (^{3}He,2nγ). δ: weighted average of −0.13 *+7−10* from DCO in (^{36}Ar,2pγ); −0.9 *+4−6* from γ(θ) in (^{6}Li,pnγ); −0.32 *22* from γγ(θ) in (^{3}He,2nγ).
		557.4 *2*	100 *4*	2186.03	4+	(M1+E2)	−0.36 *3*	9.32×10^{-4} *16*	B(M1)(W.u.)=0.0263 *+29−24*; B(E2)(W.u.)=19.3 *+37−32* E_γ: weighted average of 557.3 *3* in (^{36}Ar,2pγ); 557.3 *5* in (^{6}Li,pnγ); 557.5 *2* in (^{3}He,2nγ). δ: weighted average of −0.35 *3* from γ(θ) in (^{6}Li,pnγ); −0.38 *7* from γγ(θ) in (^{3}He,2nγ). Mult.: ΔJ=0 transition.
		938.7 *2*	69 *6*	1804.66	2+	E2		3.43×10^{-4} *5*	B(E2)(W.u.)=8.6 *+10−9* E_γ: weighted average of 938.4 *4* in (^{36}Ar,2pγ); and 938.2 *5* in (^{6}Li,pnγ); 938.9 *2* in (^{3}He,2nγ). I_γ: unweighted average of 57.6 *25* in (^{36}Ar,2pγ); 70.8 *23* in (^{6}Li,pnγ); 79 *10* in (^{3}He,2nγ).
		1789.7 *9*	2 *1*	953.86	2+	[E2]		2.97×10^{-4} *4*	B(E2)(W.u.)=0.010 *5* γ reported only in (^{3}He,2nγ).
2803.24	2+	998.4 *4*	9 *2*	1804.66	2+	(M1+E2)		2.73×10^{-4} *23*	B(M1)(W.u.)>0.0073 if M1. B(E2)(W.u.)>13 if E2.
		1849.4 *1*	100 *7*	953.86	2+	(M1(+E2))	+0.03 *16*	2.71×10^{-4} *4*	B(M1)(W.u.)>0.016
		2803.0 *5*	8 *5*	0.0	0+	[E2]		7.32×10^{-4} *10*	B(E2)(W.u.)>0.033 E_γ: from ^{62}Ga decay only.
2883.86	2+	1079.4 *4*	5 *2*	1804.66	2+	[M1+E2]		2.30×10^{-4} *16*	B(M1)(W.u.)>0.0031 if M1. B(E2)(W.u.)>4.6 if E2.
		1930.1 *4*	100 *7*	953.86	2+	(M1(+E2))	−0.32 *+30−36*	3.04×10^{-4} *12*	B(M1)(W.u.)>0.013; B(E2)(W.u.)>0.0035 E_γ: other: 1931.3 *5* in ^{62}Ga ε decay.

From ENSDF

$^{62}_{30}Zn_{32}$-15

Adopted Levels, Gammas (continued)

γ(^{62}Zn) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	Mult.[#]	δ	α[@]	Comments
2883.86	2+	(2884.0 *5*)	<2	0.0	0+	[E2]		7.67×10^{-4} *11*	
2961.56	(1+)	619.1[‡] *1*	64[‡] *8*	2342.37	0+				
		1156.8[‡] *2*	100[‡] *12*	1804.66	2+				
		2962.3[‡] *8*	30[‡] *10*	0.0	0+				
3046.40	0+	2092.5 *1*	100	953.86	2+				
3148.02	(0+,1−,2+)	2193.2 *8*	100	953.86	2+				
3180.90	1(+)	295.5[‡&] *14*	1.5[‡] *13*	2883.86	2+				
		838.7[‡] *4*	2.5[‡] *11*	2342.37	0+				
		1376.2[‡] *3*	2.8[‡] *7*	1804.66	2+				
		2227.0[‡] *1*	100.0[‡] *21*	953.86	2+	(M1(+E2))	−0.01 *8*	4.12×10^{-4} *6*	δ: from γγ(θ) for J=1 for 3181 level.
		3180.8[‡] *1*	13.3[‡] *6*	0.0	0+				
3209.79	4+	(325.7)	<2	2883.86	2+	[E2]		0.00825 *12*	E_γ,I_γ: From ^{61}Ni(^{3}He,2nγ).
		(406.7)	<2	2803.24	2+	[E2]		0.00387 *5*	E_γ,I_γ: From ^{61}Ni(^{3}He,2nγ).
		1023.7 *2*	100 *5*	2186.03	4+	(M1(+E2))	+0.01 *18*	2.38×10^{-4} *4*	B(M1)(W.u.)>0.049 E_γ: weighted average of 1023.4 *5* in (^{36}Ar,2pγ); 1024.0 *10* in (^{6}Li,pnγ); 1023.7 *2* in (^{3}He,2nγ).
		2256.4 *8*	32 *5*	953.86	2+	[E2]		4.92×10^{-4} *7*	B(E2)(W.u.)>0.46 E_γ: weighted average of 2256.1 *16* in (^{36}Ar,2pγ); 2256.5 *8* in (^{3}He,2nγ). I_γ: weighted average of 29 *5* in (^{36}Ar,2pγ); 40 *8* in (^{3}He,2nγ).
3223.50	3−	2269.6 *4*	100	953.86	2+	D(+Q)	−0.10 *19*		δ: from γγ(θ) in (^{3}He,2nγ). E_γ,I_γ: From ^{61}Ni(^{3}He,2nγ). Eγ=2270 *17* in ^{12}C(^{63}Ga,^{62}Zn′γ).
3340.51	(0+,1,2−)	2386.0 *5*	100	953.86	2+				
3374.24	1−	1031.4[‡] *2*	13.5[‡] *24*	2342.37	0+				
		1569.7[‡] *1*	100[‡] *5*	1804.66	2+				
		3374.1[‡] *2*	58[‡] *4*	0.0	0+				
3424.17	(1+)	1619.3 *1*	100 *5*	1804.66	2+				
		2471.4 *5*	30 *13*	953.86	2+				
		3425.3 *3*	30 *5*	0.0	0+				E_γ: poor fit, level-energy difference gives Eγ=3424.1.
3561.0	(0+,1,2−)	2607.1 *5*	100	953.86	2+				
3586.56	5+	843.0 *3*	100 *5*	2743.55	4+	(M1+E2)	−0.7 *5*	3.86×10^{-4} *28*	B(M1)(W.u.)=0.020 *+13−11*; B(E2)(W.u.)=24 *+24−21* δ: weighted average of −2.5 *+10−33*, −0.38 22 from

From ENSDF

$^{62}_{30}Zn_{32}$-16

Adopted Levels, Gammas (continued)

γ(^{62}Zn) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	Mult.[#]	α[@]	Comments
								γγ(θ) in (^{3}He,2nγ) and −2.17 *+84−5* from γ(θ) in (^{6}Li,pnγ). Other: ≈−0.39 or ≈−1.9 from (^{36}Ar,2pγ), E_γ: weighted average of 843.2 *3* in (^{36}Ar,2pγ); 842.7 *5* in (^{6}Li,pnγ); 843.0 *3* in (^{3}He,2nγ).
3586.56	5$^+$	1202.1 *3*	93 *7*	2384.49	3$^+$	E2	2.02×10^{-4} *3*	B(E2)(W.u.)=12 *+6−5* E_γ: weighted average of 1202.2 *5* in (^{36}Ar,2pγ); 1202.2 *6* in (^{6}Li,pnγ); 1202.1 *3* in (^{3}He,2nγ). I_γ: unweighted average of 95 *5* in (^{36}Ar,2pγ); 80.4 *36* in (^{6}Li,pnγ); 103 *5* in (^{3}He,2nγ).
		1400.7 *11*	2.1 *5*	2186.03	4$^+$	[M1+E2]	1.81×10^{-4} *12*	B(M1)(W.u.)=1.4×10^{-4} *+8−7* if M1, B(E2)(W.u.)=0.12 *+7−6* if E2.
3690.6	(0$^+$,1,2$^-$)	2736.7 *9*	100	953.86	2$^+$			
3707.47	6$^+$	1521.3 *3*	100	2186.03	4$^+$	E2	2.12×10^{-4} *3*	B(E2)(W.u.)=21 *+9−8* E_γ: weighted average of 1521.6 *4* in (^{36}Ar,2pγ); 1520.7 *4* in (^{6}Li,pnγ); 1521.5 *3* in (^{3}He,2nγ); 1521.5 *5* in (p,2nγ); 1521.3 *5* in (α,2nγ).
4008.4	(0$^+$ to 4$^+$)	2203.7 *7*	100	1804.66	2$^+$			
4021.79	(1$^+$)	1218.5[‡] *6*	7.7[‡] *18*	2803.24	2$^+$			
		1680.4[‡] *4*	4.7[‡] *12*	2342.37	0$^+$			
		3067.8[‡] *2*	9.1[‡] *8*	953.86	2$^+$			
		4021.6[‡] *1*	100.0[‡] *36*	0.0	0$^+$			
4043.12	5$^-$	833.3 *3*	18 *5*	3209.79	4$^+$	[E1]	1.83×10^{-4} *3*	B(E1)(W.u.)=1.3×10^{-4} *+7−4* E_γ: weighted average of 833.3 *3* in (^{36}Ar,2pγ); 833.4 *10* in (^{6}Li,pnγ); 833.2 *3* in (^{3}He,2nγ). I_γ: unweighted average of 9.4 *7* in (^{36}Ar,2pγ); 27 *5* in (^{6}Li,pnγ); 18 *8* in (^{3}He,2nγ). Mult.: ΔJ=2, quadrupole implying E2 in (^{36}Ar,2pγ), (2012Ge04) is in disagreement.
		1299.4 *5*	32.4 *17*	2743.55	4$^+$	(E1)	1.95×10^{-4} *3*	B(E1)(W.u.)=6.1×10^{-5} *+28−12* E_γ: weighted average of 1299.4 *5* in (^{36}Ar,2pγ); 1299.3 *12* in (^{6}Li,pnγ); 1299.4 *4* in (^{3}He,2nγ). I_γ: unweighted average of 31.3 *15* in (^{36}Ar,2pγ); 40 *6* in (^{6}Li,pnγ); 35 *4* in (^{3}He,2nγ).
		1857.3 *4*	100 *5*	2186.03	4$^+$	E1	5.75×10^{-4} *8*	B(E1)(W.u.)=6.5×10^{-5} *+29−12* E_γ: weighted average of 1857.4 *7* in (^{36}Ar,2pγ); 1856.4 *8* in (^{6}Li,pnγ); 1857.5 *4* in (^{3}He,2nγ). Mult.: from γ(θ) and polarization in (^{7}Li,pnγ).
4217.6		2031.5 *7*	100	2186.03	4$^+$			

From ENSDF

$^{62}_{30}Zn_{32}$-17

Adopted Levels, Gammas (continued)

γ(^{62}Zn) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	Mult.[#]	δ	α[@]	Comments
4230.7	(5$^+$)	643.9 *8*	88 *13*	3586.56	5$^+$				
		1487.1 *15*	63 *13*	2743.55	4$^+$				
		1845.8 *17*	100 *38*	2384.49	3$^+$				
		2044.8 *18*	100 *13*	2186.03	4$^+$				
4322.66	(1$^+$)	1982.1[&] *9*	8 *5*	2342.37	0$^+$				
		2518.0 *6*	100 *15*	1804.66	2$^+$				
		3368.1 *5*	52 *21*	953.86	2$^+$				
4347.91	6$^+$	640.4 *2*	13.1 *30*	3707.47	6$^+$	(M1)		6.39×10^{-4} *9*	B(M1)(W.u.)=0.032 *+33−16* E_γ: weighted average of 640.6 *2* in (^{36}Ar,2pγ); 640.3 *2* in (^{6}Li,pnγ); 640.4 *3* in (^{3}He,2nγ). I_γ: unweighted average of 13.6 *4* in (^{36}Ar,2pγ); 7.7 *7* in (^{6}Li,pnγ); 18 *2* in (^{3}He,2nγ). Mult.: ΔJ=0 transition.
		761.4 *2*	9.85 *30*	3586.56	5$^+$	(M1(+E2))	−0.07 *+8−10*	4.41×10^{-4} *7*	B(M1)(W.u.)=0.014 *+17−8*
		1604.3 *3*	100.0 *34*	2743.55	4$^+$	E2		2.34×10^{-4} *3*	B(E2)(W.u.)=11 *+11−5* E_γ: weighted average of 1604.4 *4* in (^{36}Ar,2pγ); 1604.2 *7* in (^{6}Li,pnγ); 1604.2 *3* in (^{3}He,2nγ).
4447.87	(1$^+$)	1107.4 *6*	0.77 *34*	3340.51	(0$^+$,1,2$^-$)				
		1644.6 *2*	13.7 *17*	2803.24	2$^+$				
		2105.4 *1*	36.8 *17*	2342.37	0$^+$				
		2643.2 *1*	31.1 *14*	1804.66	2$^+$				
		3493.9 *1*	54.7 *17*	953.86	2$^+$				
		4447.7 *1*	100 *7*	0.0	0$^+$				
4531.6	(0$^+$,1,2$^-$)	3577.6[‡] *5*	100[‡]	953.86	2$^+$				
4535.28	5$^-$	492.4 *2*	20.5 *26*	4043.12	5$^-$				
		827.7 *4*	30.0 *37*	3707.47	6$^+$	D			
		2349.8 *9*	100 *7*	2186.03	4$^+$	D			
4894.35	(1$^+$)	1932.4 *2*	29.7 *32*	2961.56	(1$^+$)				
		2091.5 *4*	10.9 *31*	2803.24	2$^+$				
		3089.6[&] *6*	2.0 *14*	1804.66	2$^+$				
		3940.5 *4*	5.0 *22*	953.86	2$^+$				
		4894.2 *1*	100 *13*	0.0	0$^+$				
4904.73	7$^-$	369.7 *2*	4.67 *13*	4535.28	5$^-$	E2		0.00533 *8*	B(E2)(W.u.)=20 *+14−6*
		556.9 *5*	47.5 *25*	4347.91	6$^+$	(E1)		4.52×10^{-4} *6*	B(E1)(W.u.)=9×10^{-5} *+6−3* I_γ: weighted average of 46.7 *25* in (^{36}Ar,2pγ); 63 *15* in (^{6}Li,pnγ); 54 *10* in (^{3}He,2nγ).

From ENSDF

$^{62}_{30}Zn_{32}$-18

Adopted Levels, Gammas (continued)

γ(^{62}Zn) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	Mult.[#]	δ	α[@]	Comments
4904.73	7⁻	861.4 *3*	9.4 *46*	4043.12	5⁻	E2		4.24×10^{-4} *6*	B(E2)(W.u.)=0.6 *+5−3* I_γ: unweighted average of 4.88 *15* in (^{36}Ar,2pγ); 14 *2* in (^{3}He,2nγ).
		1196.8 *6*	100.0 *30*	3707.47	6⁺	E1		1.39×10^{-4} *2*	B(E1)(W.u.)=1.9×10^{-5} *+13−6* δ(M2/E1)=−0.01 *13* in (^{3}He,2nγ).
5123.88	7⁻	219.3 *2*	7.7 *6*	4904.73	7⁻	(M1)		0.00793 *11*	B(M1)(W.u.)=0.06 *+6−2* Mult.: ΔJ=0 transition.
		775.8 *7*	1.66 *18*	4347.91	6⁺	[E1]		2.13×10^{-4} *3*	B(E1)(W.u.)=5×10^{-6} *+6−2*
		1080.4 *4*	100 *4*	4043.12	5⁻	E2		2.45×10^{-4} *3*	B(E2)(W.u.)=9 *+11−4*
		1416.8 *6*	27.3 *18*	3707.47	6⁺	(E1)		2.62×10^{-4} *4*	B(E1)(W.u.)=1.4×10^{-5} *+17−6*
5131.41	(6⁻)	1088.0 *4*	100	4043.12	5⁻	(M1+E2)	−2.5 *13*	2.37×10^{-4} *9*	B(M1)(W.u.)<0.01; B(E2)(W.u.)<34 δ: weighted average of −3.1 to −0.1 in (^{36}Ar,2pγ); and −4.3 *+22−20* in (^{6}Li,pnγ). Other: 0.00 *20* in (^{3}He,2nγ).
5143.70	7⁺	795.8 *3*	29 *6*	4347.91	6⁺	(M1+E2)		0.00046 *6*	I_γ: unweighted average of 34.9 *25* in (^{36}Ar,2pγ); and 23 *3* in (^{3}He,2nγ). δ: δ=−0.23 *+13−32* or −2.6 *+10−19*. B(M1)(W.u.)=0.023 *+12−9* if M1, B(E2)(W.u.)=65 *+34−25* if E2.
		1557.2 *6*	100 *5*	3586.56	5⁺	E2		2.21×10^{-4} *3*	B(E2)(W.u.)=7.8 *+39−27*
5210.92	(1⁺)	1836.9 *4*	3.9 *16*	3374.24	1⁻				
		2062.8[&] *2*	2.6 *20*	3148.02	(0⁺,1⁻,2⁺)				
		2164.4[&] *5*	1.8 *10*	3046.40	0⁺				
		2407.8 *3*	18.9 *24*	2803.24	2⁺				
		2870.5 *5*	17.9 *7*	2342.37	0⁺				E_γ: poor fit. Level-energy difference=2868.5.
		3405.8 *5*	12.9 *21*	1804.66	2⁺				
		4256.9 *1*	64.5 *32*	953.86	2⁺				
		5210.6 *1*	100 *16*	0.0	0⁺				
5394.08	(1⁺)	2589.9 *7*	10 *5*	2803.24	2⁺				
		3051.6 *7*	31 *11*	2342.37	0⁺				
		3589.6 *4*	100 *25*	1804.66	2⁺				
5481.2	8⁺	1773.8 *7*	100	3707.47	6⁺	E2		2.91×10^{-4} *4*	B(E2)(W.u.)=7.9 *+26−25*
5507.65	(1⁺)	2166.7[&] *4*	17 *11*	3340.51	(0⁺,1,2⁻)				
		2624.2 *4*	34 *13*	2883.86	2⁺				
		2704.4 *3*	100 *16*	2803.24	2⁺				
		3164.1 *7*	20 *19*	2342.37	0⁺				
		5508.0 *7*	43 *15*	0.0	0⁺				
5583.77?	(1⁺)	5583.5[&] *4*	100	0.0	0⁺				
5693.2	7(−)	1650.9 *12*	100 *10*	4043.12	5⁻	Q			

From ENSDF

$^{62}_{30}Zn_{32}$-19

Adopted Levels, Gammas (continued)

γ(^{62}Zn) (continued)

E_i(level)	J_i^π	E_γ †	I_γ †	E_f	J_f^π	Mult.#	α@	Comments
5693.2	$7^{(-)}$	1985.1 *16*	81 *19*	3707.47	6^+	D		
5878.6	$(7^+,8^+)$	2171.0 *9*	100	3707.47	6^+			
5910.56	(8^+)	1562.8 *9*	21 *7*	4347.91	6^+			
		2203.2 *11*	100 *11*	3707.47	6^+			
5919.78	(1^+)	3577.7& *6*	7 *5*	2342.37	0^+			
		5919.2 *5*	100 *33*	0.0	0^+			
6081.55	9^-	171.0 *3*	0.22 *4*	5910.56	(8^+)	[E1]	0.01182 *18*	B(E1)(W.u.)=5×10^{-5} *+6−3*
		1176.7 *4*	100.0 *30*	4904.73	7^-	E2	2.08×10^{-4} *3*	B(E2)(W.u.)=4.4 *+49−21*
6113.50	(8^-)	981.8 *4*	13.7 *11*	5131.41	(6^-)	Q		
		990.2 *6*	3.4 *7*	5123.88	7^-	D+Q		
		1208.8 *5*	100 *5*	4904.73	7^-	D+Q		δ: δ=+0.35 *5* or +2.8 *+5−4*.
6304.4	$7^{(+)}$	1160.8 *11*	39 *17*	5143.70	7^+			
		1954.9 *17*	35 *4*	4347.91	6^+			
		2073.0 *12*	57 *4*	4230.7	(5^+)			
		2597.6 *17*	57 *4*	3707.47	6^+			
		2716.3 *16*	100 *4*	3586.56	5^+	Q		
6342.8	(8^-)	1219.0 *7*	100	5123.88	7^-	D+Q		δ: δ=−0.22 *+8−12* or −2.3 *6*.
6444.7	(8^+)	2097.1 *12*	100	4347.91	6^+	(Q)		
6630.92	$9^{(-)}$	549.6 *8*	1.95 *24*	6081.55	9^-			
		720.5 *10*	2.68 *24*	5910.56	(8^+)			
		1507.2 *6*	100 *5*	5123.88	7^-	Q		
6964.6	$9^{(+)}$	1085.8 *11*	22 *4*	5878.6	$(7^+,8^+)$			
		1483.3 *13*	10.8 *27*	5481.2	8^+			
		1821.0 *10*	100 *7*	5143.70	7^+	Q		
7024.2	(9^-)	1331.2 *9*	100 *12*	5693.2	$7^{(-)}$	(Q)		
		1543.1 *13*	44 *10*	5481.2	8^+	D		
7422.2	(11^-)	1340.4 *4*	100	6081.55	9^-	Q		
7422.8	(10^-)	791.7 *8*	1.88 *17*	6630.92	$9^{(-)}$	D+Q		
		1309.3 *5*	100 *6*	6113.50	(8^-)	Q		
		1341.4 *7*	35 *6*	6081.55	9^-	(D+Q)		
7444.8	$9^{(-)}$	1331.1 *9*	48 *10*	6113.50	(8^-)			
		1363.3 *5*	100 *7*	6081.55	9^-	D		Mult.: ΔJ=0 transition.
7499.1	(10^+)	2017.8 *9*	100	5481.2	8^+	Q		
7738.9	(10^-)	1108.2 *4*	100 *4*	6630.92	$9^{(-)}$	D+Q		
		1396.4 *10*	50.9 *28*	6342.8	(8^-)	Q		
7975.47	$9^{(+)}$	1011.0 *9*	7.7 *10*	6964.6	$9^{(+)}$			
		1531.2 *13*	7.7 *10*	6444.7	(8^+)			
		1632.6 *12*	32 *5*	6342.8	(8^-)	D		
		1670.4 *7*	43.3 *19*	6304.4	$7^{(+)}$	Q		
		1862.2 *13*	23.1 *29*	6113.50	(8^-)	D		

From ENSDF

$^{62}_{30}Zn_{32}$-20

Adopted Levels, Gammas (continued)

γ(^{62}Zn) (continued)

E_i(level)	J_i^π	E_γ †	I_γ †	E_f	J_f^π	Mult.#	Comments
7975.47	$9^{(+)}$	1894.2 *8*	44.2 *29*	6081.55	9^-	D	Mult.: ΔJ=0 transition.
		2065.0 *18*	16.4 *29*	5910.56	(8^+)	D+Q	
		2831.9 *14*	100 *9*	5143.70	7^+	Q	
7984.9	(10^+)	961.0 *9*	100 *12*	7024.2	(9^-)	D	
		1353.6 *12*	18 *6*	6630.92	$9^{(-)}$		
		1902.7 *17*	31 *10*	6081.55	9^-		
8436.96	(10^+)	1806.0 *17*	2.7 *6*	6630.92	$9^{(-)}$		
		2354.9 *12*	100 *6*	6081.55	9^-	D	
8479.91	(10)	1056.1 *6*	100 *12*	7422.2	(11^-)	D	
		1515.3 *15*	32 *8*	6964.6	$9^{(+)}$		
		2398.3 *17*	56 *8*	6081.55	9^-		
8489.7	(11^-)	1859.0 *11*	100	6630.92	$9^{(-)}$	(Q)	
9024.4	(12^-)	1601.7 *7*	100 *8*	7422.8	(10^-)	Q	
		1602.7 *8*	44 *5*	7422.2	(11^-)	D+Q	
9047.76	(11^+)	566.6 *6*	9.3 *10*	8479.91	(10)	D	
		610.9 *6*	9.0 *10*	8436.96	(10^+)	D+Q	
		1072.2 *7*	100 *4*	7975.47	$9^{(+)}$	Q	
		1310.0 *8*	17.2 *14*	7738.9	(10^-)		
		1548.6 *12*	3.8 *7*	7499.1	(10^+)	D+Q	
		1625.0 *9*	51.4 *21*	7422.8	(10^-)	D	
		2083.0 *18*	4.5 *4*	6964.6	$9^{(+)}$		
9083.4	(11^-)	603.2 *7*	24 *5*	8479.91	(10)		
		1638.7 *8*	100 *8*	7444.8	$9^{(-)}$	Q	
		1661.7 *10*	52 *6*	7422.2	(11^-)		
		3002.1 *12*	81 *5*	6081.55	9^-		
9213.7	(13^-)	1791.3 *6*	100	7422.2	(11^-)	Q	
9464.67	(12^+)	416.9 *2*	35.0 *12*	9047.76	(11^+)	D+Q	
		974.8 *10*	3.5 *7*	8489.7	(11^-)		
		1027.6 *4*	50.0 *26*	8436.96	(10^+)	Q	
		1479.8 *9*	19.2 *14*	7984.9	(10^+)	Q	
		1965.5 *18*	2.1 *5*	7499.1	(10^+)		
		2042.5 *11*	100 *4*	7422.2	(11^-)	D	
9681.7	(12^-)	1192.7 *13*	61 *6*	8489.7	(11^-)		
		1942.0 *14*	100 *11*	7738.9	(10^-)	Q	
9822.8	(12^+)	2401.7 *9*	100	7422.2	(11^-)	D	
9865.7	(11^+)	2442.9 *13*	100	7422.2	(11^-)	D	
9959.73	(13^+)	495.1 *5*	3.7 *5*	9464.67	(12^+)		
		911.2 *8*	100 *5*	9047.76	(11^+)	Q	
		935.7 *8*	31.2 *16*	9024.4	(12^-)	D	
10241.7	(11^+)	1761.3 *15*	38 *6*	8479.91	(10)		
		1804.7 *15*	41 *9*	8436.96	(10^+)		

From ENSDF

$^{62}_{30}Zn_{32}$-21

Adopted Levels, Gammas (continued)

γ(^{62}Zn) (continued)

E_i(level)	J_i^π	E_γ †	I_γ †	E_f	J_f^π	Mult.#	δ	Comments
10241.7	(11$^+$)	2742.2 *18*	100 *12*	7499.1	(10$^+$)	D+Q		
		2819.9 *19*	79 *9*	7422.2	(11$^-$)	D		Mult.: ΔJ=0 transition.
10374.58	(14$^+$)	414.8 *4*	1.00 *7*	9959.73	(13$^+$)	D+Q		
		909.6 *6*	17.1 *7*	9464.67	(12$^+$)	Q		
		1160.9 *5*	100.0 *33*	9213.7	(13$^-$)	D		
10456.8	(13$^-$)	1966.9 *15*	100	8489.7	(11$^-$)	Q		
10630.56	(12$^+$)	388.8 *4*	40.3 *17*	10241.7	(11$^+$)	D(+Q)	+0.06 *+8–9*	
		1547.2 *6*	100.0 *33*	9083.4	(11$^-$)	D		
		1582.6 *12*	5.4 *8*	9047.76	(11$^+$)			
		2645.6 *21*	4.9 *12*	7984.9	(10$^+$)			
		3132.1 *19*	11.9 *12*	7499.1	(10$^+$)	Q		
		3208.4 *18*	25.9 *12*	7422.2	(11$^-$)	D		
10725.3	(14$^-$)	1511.6 *7*	19.5 *21*	9213.7	(13$^-$)	D+Q	+0.11 *+5–6*	
		1701.0 *9*	100 *5*	9024.4	(12$^-$)	Q		
11177.76	(13$^+$)	547.2 *2*	100.0 *26*	10630.56	(12$^+$)	D+Q	+0.16 *4*	
		936.1 *7*	21.2 *10*	10241.7	(11$^+$)	Q		
		1311.8 *9*	6.5 *8*	9865.7	(11$^+$)			
		1712.2 *13*	3.8 *8*	9464.67	(12$^+$)			
		2154.0 *14*	10.9 *8*	9024.4	(12$^-$)	D		
11545.8	(14$^+$)	1723.7 *7*	100 *5*	9822.8	(12$^+$)	Q		
		2333.1 *13*	55 *4*	9213.7	(13$^-$)	D		
11651.1	(13$^-$)	1021.2 *11*	14 *5*	10630.56	(12$^+$)			
		2187.0 *19*	15.3 *34*	9464.67	(12$^+$)			
		2436.1 *16*	53 *9*	9213.7	(13$^-$)			
		2626.3 *16*	52.5 *34*	9024.4	(12$^-$)			
		4228.0 *28*	100 *10*	7422.2	(11$^-$)	Q		
11751.08	(14$^+$)	573.3 *2*	100.0 *29*	11177.76	(13$^+$)	D+Q	+0.12 *+4–5*	
		1120.0 *11*	65.6 *18*	10630.56	(12$^+$)	Q		
		2286.6 *18*	3.6 *7*	9464.67	(12$^+$)			
		2537.4 *14*	27.0 *18*	9213.7	(13$^-$)	D		
11786.6	(15$^+$)	1826.7 *9*	100	9959.73	(13$^+$)	Q		
11961.0	(16$^+$)	1586.4 *5*	100	10374.58	(14$^+$)	Q		
12046.1	(14$^-$)	1589.2 *13*	100 *9*	10456.8	(13$^-$)			
		2364.5 *19*	28.1 *31*	9681.7	(12$^-$)			
12276.6	(15$^+$)	1901.8 *7*	100	10374.58	(14$^+$)	D+Q		
12329.1	(14$^-$)	678.0 *3*	59.6 *21*	11651.1	(13$^-$)	D+Q	+0.15 *5*	
		1151.6 *7*	12.9 *8*	11177.76	(13$^+$)	D		
		1604.1 *13*	6.7 *21*	10725.3	(14$^-$)			
		2369.4 *17*	9.6 *17*	9959.73	(13$^+$)			
		3115.2 *18*	100 *8*	9213.7	(13$^-$)	(D+Q)		
		3304.9 *14*	4.6 *8*	9024.4	(12$^-$)			
12531.5	(15$^+$)	780.4 *3*	100.0 *30*	11751.08	(14$^+$)	D+Q	+0.15 *+5–6*	

From ENSDF

$^{62}_{30}Zn_{32}$-22

Adopted Levels, Gammas (continued)

γ(^{62}Zn) (continued)

E_i(level)	J_i^π	E_γ †	I_γ †	E_f	J_f^π	Mult.#	δ
12531.5	(15$^+$)	1353.3 *8*	79.5 *26*	11177.76	(13$^+$)	Q	
		2156.9 *17*	6.7 *9*	10374.58	(14$^+$)		
12812.3	(15$^-$)	1266.9 *5*	16.6 *11*	11545.8	(14$^+$)	D	
		2355.4 *20*	1.2 *4*	10456.8	(13$^-$)		
		2436.9 *9*	100 *5*	10374.58	(14$^+$)	D	
		3597.1 *22*	2.28 *21*	9213.7	(13$^-$)		
12831.4	(15$^-$)	2374.6 *14*	100	10456.8	(13$^-$)		
12992.6	(15$^-$)	663.7 *3*	100.0 *31*	12329.1	(14$^-$)	D+Q	+0.12 *4*
		1241.4 *7*	19.9 *12*	11751.08	(14$^+$)	D	
		1341.4 *8*	31 *10*	11651.1	(13$^-$)	Q	
		1446.8 *10*	2.7 *4*	11545.8	(14$^+$)		
		3779.3 *29*	3.4 *8*	9213.7	(13$^-$)	Q	
13156.2	(16$^+$)	1610.3 *10*	100	11545.8	(14$^+$)	Q	
13230.9	(16$^+$)	699.4 *3*	72.9 *22*	12531.5	(15$^+$)	D+Q	+0.11 *+4−5*
		1479.6 *7*	100.0 *32*	11751.08	(14$^+$)	Q	
		2856.2 *21*	5.7 *6*	10374.58	(14$^+$)		
13725.9	(16$^-$)	733.5 *3*	100.0 *23*	12992.6	(15$^-$)	D+Q	+0.07 *+3−4*
		913.6 *5*	8.6 *8*	12812.3	(15$^-$)	D+Q	+0.16 *6*
		1193.9 *9*	8.0 *12*	12531.5	(15$^+$)	D	
		1396.4 *7*	95.8 *32*	12329.1	(14$^-$)	Q	
13782.3	(17$^+$)	1505.6 *8*	22.3 *11*	12276.6	(15$^+$)	Q	
		1821.3 *5*	100 *6*	11961.0	(16$^+$)	D+Q	
13964.4	(16$^+$)	3589.7 *17*	100	10374.58	(14$^+$)	(Q)	
14119.0	(17$^+$)	888.0 *4*	100.0 *31*	13230.9	(16$^+$)	D+Q	+0.18 *+5−6*
		1587.7 *10*	65.9 *20*	12531.5	(15$^+$)	Q	
		2157.7 *20*	14.2 *17*	11961.0	(16$^+$)	D+Q	
14343.8	(16$^-$)	3618.4 *10*	100	10725.3	(14$^-$)	(Q)	
14429.8	(16$^+$)	4055.0 *27*	100	10374.58	(14$^+$)	(Q)	
14444.8	(17$^-$)	718.8 *3*	22.8 *10*	13725.9	(16$^-$)	D+Q	+0.10 *+6−7*
		1214.2 *10*	2.44 *20*	13230.9	(16$^+$)		
		1288.8 *8*	4.5 *10*	13156.2	(16$^+$)		
		1452.1 *12*	2.03 *20*	12992.6	(15$^-$)		
		1632.8 *7*	42.3 *23*	12812.3	(15$^-$)	Q	
		2483.4 *12*	100 *6*	11961.0	(16$^+$)	D	
14489.4	(15$^-$)	4114.2 *30*	100 *8*	10374.58	(14$^+$)	D	
		5275.0 *35*	75 *8*	9213.7	(13$^-$)		
14540.8	(17$^-$)	814.9 *4*	80.7 *26*	13725.9	(16$^-$)	D+Q	+0.14 *4*
		1309.6 *9*	15.7 *9*	13230.9	(16$^+$)	D	
		1384.2 *10*	3.6 *5*	13156.2	(16$^+$)		
		1548.3 *7*	100 *4*	12992.6	(15$^-$)	Q	
		2580.7 *14*	32.0 *12*	11961.0	(16$^+$)	D	
14567.8	(15)	3842.4 *21*	100	10725.3	(14$^-$)	D	

From ENSDF

$^{62}_{30}Zn_{32}$-23

Adopted Levels, Gammas (continued)

γ(^{62}Zn) (continued)

E_i(level)	J_i^π	E_γ †	I_γ †	E_f	J_f^π	Mult.#	δ
14610.5		4235.8 *28*	100	10374.58	(14^+)		
14644.5	(16^+)	2858.3 *20*	100	11786.6	(15^+)		
14831.1	(16^+)	3043.5 *21*	100	11786.6	(15^+)		
15020.7	(17)	3059.6 *18*	100	11961.0	(16^+)	D	
15040.1	(16^+)	3494.8 *25*	100	11545.8	(14^+)		
15042.6	(18^+)	923.6 *5*	89.3 *31*	14119.0	(17^+)	D+Q	+0.18 *5*
		1811.3 *8*	100.0 *35*	13230.9	(16^+)	Q	
15076.7	(17^-)	1580.1 *18*	33 *6*	13496.5	(15^-)		
		2264.7 *17*	24 *6*	12812.3	(15^-)		
		3116.2 *18*	100 *6*	11961.0	(16^+)	D	
15081.1	(16^-)	2269.2 *14*	42 *5*	12812.3	(15^-)		
		2803.9 *17*	45.7 *26*	12276.6	(15^+)		
		4355.4 *26*	100 *5*	10725.3	(14^-)	Q	
15281.2	(17^+)	2050.6 *17*	100 *13*	13230.9	(16^+)	D+Q	
		3495.4 *29*	88 *13*	11786.6	(15^+)	Q	
15294.1	(18^+)	2138.0 *15*	100	13156.2	(16^+)		
15407.5	(17^+)	3618.7 *30*	100	11786.6	(15^+)		
15414.0	(18^-)	873.2 *4*	44.2 *14*	14540.8	(17^-)	D+Q	+0.16 *4*
		969.3 *6*	26.8 *9*	14444.8	(17^-)	D+Q	
		1295.0 *8*	9.5 *7*	14119.0	(17^+)		
		1688.4 *7*	100.0 *35*	13725.9	(16^-)	Q	
15682.1		3721.0 *24*	100	11961.0	(16^+)		
15704.5	(19^-)	1259.6 *4*	100	14444.8	(17^-)	Q	
15716.0	(17^+)	3438.8 *28*	75 *13*	12276.6	(15^+)		
		3754.6 *29*	63 *13*	11961.0	(16^+)		
		3930.4 *31*	100 *13*	11786.6	(15^+)		
15727.3		1383.5 *14*	100	14343.8	(16^-)		
15750.1	(17^-)	668.9 *6*	21.8 *26*	15081.1	(16^-)		
		1260.7 *8*	100 *8*	14489.4	(15^-)	Q	
		1306.0 *11*	19.2 *13*	14444.8	(17^-)		
		1785.7 *14*	16.7 *13*	13964.4	(16^+)		
		2518.6 *17*	27 *4*	13230.9	(16^+)		
		3788.7 *22*	29.5 *13*	11961.0	(16^+)	D	
15830.1	(17)	3869.0 *27*	100	11961.0	(16^+)	D	
15869.7	(17^-)	3908.9 *31*	100	11961.0	(16^+)		
16101.6	(17^-)	2870.8 *22*	41 *12*	13230.9	(16^+)		
		4140.0 *29*	100 *12*	11961.0	(16^+)	D	
16234.3	(17)	4273.2 *32*	100	11961.0	(16^+)	D	
16323.2	(18^+)	1893.4 *11*	100	14429.8	(16^+)		
16365.1	(19^+)	1322.8 *9*	100 *7*	15042.6	(18^+)	D(+Q)	+0.04 *6*
		2245.3 *15*	53.0 *33*	14119.0	(17^+)	Q	
16369.6	(17)	2047.7 *20*	100	14321.9			

From ENSDF

$^{62}_{30}Zn_{32}$-24

Adopted Levels, Gammas (continued)

γ(^{62}Zn) (continued)

E_i(level)	J_i^π	E_γ †	I_γ †	E_f	J_f^π	Mult.#	δ
16372.7	(19$^-$)	959.0 *5*	71.0 *32*	15414.0	(18$^-$)	D+Q	+0.19 *+7−8*
		1329.6 *9*	7.3 *6*	15042.6	(18$^+$)		
		1831.4 *8*	100.0 *32*	14540.8	(17$^-$)	Q	
		1927.6 *10*	43.9 *16*	14444.8	(17$^-$)	Q	
16413.9		4452.8 *26*	100	11961.0	(16$^+$)		
16443.9	(17)	4482.1 *38*	100	11961.0	(16$^+$)		
16469.6	(18$^+$)	4508.6 *28*	100	11961.0	(16$^+$)	Q	
16500.4	(18$^-$)	750.6 *6*	11.2 *10*	15750.1	(17$^-$)		
		1419.6 *10*	100 *9*	15081.1	(16$^-$)	Q	
16715.0	(18$^+$)	1675.3 *11*	39 *4*	15040.1	(16$^+$)		
		1883.7 *10*	55 *6*	14831.1	(16$^+$)	Q	
		2070.7 *12*	100 *6*	14644.5	(16$^+$)	Q	
		2270.5 *17*	21.6 *20*	14444.8	(17$^-$)		
		4752.4 *38*	26 *4*	11961.0	(16$^+$)	Q	
16817.2	(18$^+$)	1776.9 *8*	100 *6*	15040.1	(16$^+$)	Q	
		1832.7 *9*	58 *5*	14984.5			
		2372.7 *19*	18.5 *16*	14444.8	(17$^-$)		
		4856.4 *32*	20.0 *31*	11961.0	(16$^+$)		
16874.2		3091.8 *23*	100	13782.3	(17$^+$)		
16901.0	(19$^-$)	1196.0 *13*	9.5 *32*	15704.5	(19$^-$)		
		1824.7 *11*	100 *4*	15076.7	(17$^-$)	Q	
		2456.2 *20*	16 *4*	14444.8	(17$^-$)		
17035.2		5074.0 *32*	100	11961.0	(16$^+$)		
17338.5	(19$^-$)	838.2 *5*	17.4 *18*	16500.4	(18$^-$)	D+Q	
		1587.5 *9*	100 *7*	15750.1	(17$^-$)	Q	
17350.2	(18$^+$)	1867.9 *11*	100 *10*	15482.3	(16$^+$)	Q	
		5387.9 *41*	55 *7*	11961.0	(16$^+$)	Q	
17365.1	(18$^-$)	3638.7 *33*	100	13725.9	(16$^-$)		
17400.1		3617.7 *27*	100	13782.3	(17$^+$)		
17407.5	(18$^-$)	2962.9 *28*	100 *17*	14444.8	(17$^-$)	D+Q	
		3682.0 *34*	50 *17*	13725.9	(16$^-$)		
17454.0		1623.9 *13*	100	15830.1	(17)		
17477.8	(20$^-$)	1105.1 *6*	68.6 *26*	16372.7	(19$^-$)	D+Q	
		1112.6 *12*	1.79 *20*	16365.1	(19$^+$)		
		2063.8 *10*	100.0 *34*	15414.0	(18$^-$)	Q	
17488.7	(19$^+$)	2080.8 *11*	54 *8*	15407.5	(17$^+$)		
		2207.9 *14*	100 *17*	15281.2	(17$^+$)	Q	
17578.7	(19$^-$)	1709.1 *17*	50 *11*	15869.7	(17$^-$)		
		3134.4 *26*	100 *22*	14444.8	(17$^-$)	Q	
17582.4	(20$^+$)	1217.3 *11*	39.4 *30*	16365.1	(19$^+$)	D+Q	
		2539.7 *14*	100 *8*	15042.6	(18$^+$)	Q	
17646.3	(18$^+$)	1850.2 *16*	100 *18*	15796.0	(16$^+$)		

From ENSDF

$^{62}_{30}Zn_{32}$-25

Adopted Levels, Gammas (continued)

γ(^{62}Zn) (continued)

E_i(level)	J_i^π	E_γ †	I_γ †	E_f	J_f^π	Mult.#	δ
17646.3	(18$^+$)	5685.0 *38*	55 *9*	11961.0	(16$^+$)		
17665.9		3883.5 *25*	100	13782.3	(17$^+$)		
17696.7	(19$^+$)	1980.6 *11*	100	15716.0	(17$^+$)		
17748.8		3966.4 *31*	100	13782.3	(17$^+$)		
17764.1	(19$^-$)	1662.4 *10*	100	16101.6	(17$^-$)	Q	
17843.7		5882.4 *42*	100	11961.0	(16$^+$)		
18020.3		4237.9 *34*	100	13782.3	(17$^+$)		
18239.9	(20$^-$)	2535.1 *16*	100	15704.5	(19$^-$)	D+Q	
18286.5	(20$^-$)	948.1 *10*	4.4 *13*	17338.5	(19$^-$)		
		1786.3 *9*	100 *6*	16500.4	(18$^-$)	Q	
		2581.8 *15*	26.1 *19*	15704.5	(19$^-$)	D+Q	
18416.1	(19$^-$)	1842.0 *13*	100 *17*	16574.0	(17$^-$)		
		2093.2 *16*	67 *17*	16323.2	(18$^+$)		
		3002.9 *26*	83 *17*	15414.0	(18$^-$)		
18502.0	(21$^-$)	1024.6 *6*	23.1 *12*	17477.8	(20$^-$)	D+Q	+0.18 *9*
		2129.1 *11*	100.0 *32*	16372.7	(19$^-$)	Q	
18505.9	(19)	1828.0 *17*	67 *11*	16677.8			
		2061.8 *19*	61 *11*	16443.9	(17)		
		2136.2 *16*	100 *11*	16369.6	(17)		
		4061.4 *33*	22 *11*	14444.8	(17$^-$)		
18516.4	(19$^+$)	4734.0 *28*	100	13782.3	(17$^+$)	Q	
18592.7		4810.2 *36*	100	13782.3	(17$^+$)		
18677.1	(20$^+$)	1859.7 *10*	100 *5*	16817.2	(18$^+$)	Q	
		1962.3 *11*	92 *4*	16715.0	(18$^+$)	Q	
		2207.0 *18*	8.6 *19*	16469.6	(18$^+$)		
		2972.8 *25*	7.6 *19*	15704.5	(19$^-$)		
18759.0	(20$^+$)	2290.1 *20*	47 *7*	16469.6	(18$^+$)		
		2435.3 *15*	100 *13*	16323.2	(18$^+$)		
19093.1	(21$^-$)	2192.0 *12*	100	16901.0	(19$^-$)	Q	
19177.0		3472.4 *24*	100	15704.5	(19$^-$)		
19305.1	(21$^-$)	1018.9 *11*	5.2 *6*	18286.5	(20$^-$)		
		1966.4 *10*	100 *4*	17338.5	(19$^-$)	Q	
19399.9	(20$^-$)	1891.3 *15*	67 *6*	17508.6	(18$^-$)		
		1992.5 *14*	100 *6*	17407.5	(18$^-$)		
		2034.7 *14*	83 *11*	17365.1	(18$^-$)		
		2081.7 *17*	50 *6*	17318.2	(18$^-$)		
		3027.4 *24*	44 *11*	16372.7	(19$^-$)		
		3984.9 *31*	61 *6*	15414.0	(18$^-$)	(Q)	
19477.1	(20$^+$)	2126.8 *12*	100 *7*	17350.2	(18$^+$)	Q	
		4183.5 *31*	9.3 *13*	15294.1	(18$^+$)		
19486.0	(21$^-$)	3780.8 *25*	100	15704.5	(19$^-$)	Q	
19498.1	(21$^+$)	3132.9 *23*	100	16365.1	(19$^+$)		

From ENSDF

$^{62}_{30}Zn_{32}$-26

Adopted Levels, Gammas (continued)

γ(^{62}Zn) (continued)

E_i(level)	J_i^π	E_γ †	I_γ †	E_f	J_f^π	Mult.#
19676.6	(22$^-$)	1174.8 *6*	57.9 *35*	18502.0	(21$^-$)	
		2197.0 *13*	100 *5*	17477.8	(20$^-$)	Q
19677.4		2223.3 *19*	100	17454.0		
19702.7	(20$^+$)	2056.4 *14*	100	17646.3	(18$^+$)	Q
19757.1	(21$^-$)	2178.6 *13*	100	17578.7	(19$^-$)	Q
19773.9		4731.1 *38*	100	15042.6	(18$^+$)	
19777.7	(21$^-$)	2013.5 *13*	100	17764.1	(19$^-$)	Q
20026.8		3654.2 *30*	100 *13*	16372.7	(19$^-$)	
		4321.8 *37*	33 *13*	15704.5	(19$^-$)	
20086.1	(21$^+$)	2389.4 *14*	76 *6*	17696.7	(19$^+$)	Q
		2597.4 *13*	100 *9*	17488.7	(19$^+$)	Q
20432.3	(21$^+$)	1915.8 *11*	100	18516.4	(19$^+$)	Q
20441.8	(22$^-$)	1136.8 *11*	4.1 *12*	19305.1	(21$^-$)	
		2155.4 *13*	100 *4*	18286.5	(20$^-$)	Q
		2201.6 *17*	18.0 *12*	18239.9	(20$^-$)	Q
20473.5	(21$^-$)	2057.8 *12*	100 *16*	18416.1	(19$^-$)	Q
		2994.0 *30*	19.4 *32*	17477.8	(20$^-$)	D
20658.5	(21$^+$)	1933.7 *13*	100	18724.8	(19$^+$)	
20782.0		5077.3 *41*	100	15704.5	(19$^-$)	
20851.3	(21)	2345.4 *19*	100	18505.9	(19)	
20856.9	(22$^+$)	2179.8 *12*	100	18677.1	(20$^+$)	Q
21036.8	(23$^-$)	1360.2 *5*	44.2 *25*	19676.6	(22$^-$)	D+Q
		2535.0 *13*	100.0 *37*	18502.0	(21$^-$)	Q
21189.9		5485.1 *42*	100	15704.5	(19$^-$)	
21197.1	(21)	3719.2 *31*	100	17477.8	(20$^-$)	D
21316.2	(21)	3838.3 *29*	100	17477.8	(20$^-$)	D
21401.4	(22$^-$)	3923.5 *29*	100	17477.8	(20$^-$)	(Q)
21403.3	(22$^+$)	2644.2 *20*	100	18759.0	(20$^+$)	
21468.1		2709.0 *21*	100	18759.0	(20$^+$)	
21602.5	(21$^-$)	5897.7 *46*	100	15704.5	(19$^-$)	
21614.4	(22$^-$)	2014.9 *13*	12.3 *19*	19599.4	(20$^-$)	
		2214.4 *9*	100 *8*	19399.9	(20$^-$)	Q
21682.6	(23$^-$)	1240.5 *13*	5.1 *17*	20441.8	(22$^-$)	
		2377.3 *13*	100 *4*	19305.1	(21$^-$)	Q
21686.9	(23$^-$)	2593.8 *14*	100	19093.1	(21$^-$)	Q
21851.9	(22$^+$)	2374.7 *12*	100	19477.1	(20$^+$)	Q
22029.7	(22$^+$)	2327.0 *15*	100	19702.7	(20$^+$)	Q
22127.1	(23$^-$)	2349.5 *13*	83 *5*	19777.7	(21$^-$)	Q
		2370.0 *11*	100 *8*	19757.1	(21$^-$)	Q
		2640.7 *22*	18 *5*	19486.0	(21$^-$)	
22243.6	(23$^-$)	2465.7 *14*	100 *7*	19777.7	(21$^-$)	Q
		2486.8 *21*	7.0 *23*	19757.1	(21$^-$)	
22243.6	(23$^-$)	2757.4 *23*	14 *5*	19486.0	(21$^-$)	
22567.8	(23$^+$)	2135.5 *14*	100	20432.3	(21$^+$)	Q
22741.5		4239.3 *40*	100 *2*	18502.0	(21$^-$)	
22782.5	(23$^-$)	2309.2 *14*	100 *9*	20473.5	(21$^-$)	Q
		3105.5 *29*	20.0 *22*	19676.6	(22$^-$)	
22794.3	(23$^+$)	2135.9 *15*	20 *7*	20658.5	(21$^+$)	
		2173.8 *11*	73 *7*	20620.4	(21$^+$)	
		2707.8 *22*	100 *7*	20086.1	(21$^+$)	Q
22822.6		4320.4 *33*	100	18502.0	(21$^-$)	
22866.0	(23$^+$)	2207.3 *15*	100 *12*	20658.5	(21$^+$)	Q
		2780.1 *24*	45 *5*	20086.1	(21$^+$)	Q
23024.4		2242.3 *19*	100	20782.0		
23028.6	(23$^-$)	4525.3 *35*	100	18502.0	(21$^-$)	Q
23071.5	(24$^-$)	1388.4 *14*	100	21682.6	(23$^-$)	
		2630.2 *15*	100	20441.8	(22$^-$)	Q
23079.4		3402.7 *25*	100	19676.6	(22$^-$)	
23179.2	(24$^-$)	2142.2 *16*	41.5 *31*	21036.8	(23$^-$)	
		3502.7 *21*	100 *8*	19676.6	(22$^-$)	Q
23184.4		4682.2 *38*	100	18502.0	(21$^-$)	
23274	(22)	2175.6 *18*	100	21098		
23341.6	(24$^+$)	2484.6 *14*	100	20856.9	(22$^+$)	Q
23376.6	(22)	1551.8 *13*	100 *12*	21824.8		
		1774.1 *12*	71 *12*	21602.5	(21$^-$)	D
23408.0		4905.8 *43*	100	18502.0	(21$^-$)	
23467.0	(23)	2615.6 *22*	100	20851.3	(21)	
23625.1		2221.8 *18*	100	21403.3	(22$^+$)	
23761.6		5259.3 *44*	100	18502.0	(21$^-$)	
24053.7	(24$^-$)	2439.3 *10*	100 *5*	21614.4	(22$^-$)	Q
		4377.1 *34*	5.3 *8*	19676.6	(22$^-$)	
24307.9	(24$^-$)	4631.2 *37*	100	19676.6	(22$^-$)	Q
24468.3	(24$^+$)	2616.4 *14*	100	21851.9	(22$^+$)	Q
24607.3	(25$^-$)	2924.6 *17*	100	21682.6	(23$^-$)	Q
24692.1	(24$^+$)	2662.3 *18*	100	22029.7	(22$^+$)	Q
24725.6	(25$^-$)	3038.6 *18*	100	21686.9	(23$^-$)	Q
24912.7	(25$^-$)	2785.5 *16*	100	22127.1	(23$^-$)	Q
25145.2	(25$^+$)	2577.4 *16*	100	22567.8	(23$^+$)	Q
25162.1	(25$^-$)	2918.5 *17*	100	22243.6	(23$^-$)	Q
25338.5	(25$^+$)	2472.4 *13*	62 *7*	22866.0	(23$^+$)	Q
		2544.2 *12*	100 *7*	22794.3	(23$^+$)	Q
25347.1	(25$^-$)	2564.8 *14*	100	22782.5	(23$^-$)	Q
25402.1	(24)	2025.4 *13*	100 *7*	23376.6	(22)	Q
		2128.2 *13*	93 *10*	23274	(22)	Q

From ENSDF

$^{62}_{30}Zn_{32}$-27

Adopted Levels, Gammas (continued)

γ(^{62}Zn) (continued)

E_i(level)	J_i^π	E_γ †	I_γ †	E_f	J_f^π	Mult.#
25438.3		4401.3 *38*	100	21036.8	(23$^-$)	
25478.9	(25$^-$)	2450.1 *13*	100	23028.6	(23$^-$)	
25660.4	(25$^-$)	4623.4 *26*	100	21036.8	(23$^-$)	Q
25880.3		4843.3 *36*	100	21036.8	(23$^-$)	
25989.7		4952.7 *39*	100	21036.8	(23$^-$)	
26173.9	(26$^+$)	2832.2 *20*	100	23341.6	(24$^+$)	Q
26228.2		5191.1 *41*	100	21036.8	(23$^-$)	
26322.9	(26$^-$)	3251.3 *18*	100	23071.5	(24$^-$)	Q
26461.6	(25)	2994.6 *17*	100	23467.0	(23)	
26743.7	(26$^-$)	2689.9 *12*	100	24053.7	(24$^-$)	Q
27316.9	(26$^+$)	2848.5 *17*	100	24468.3	(24$^+$)	Q
27718	(26)	2315.4 *14*	100	25402.1	(24)	Q
27764	(26$^+$)	3071.5 *28*	100	24692.1	(24$^+$)	
28162.7	(27$^-$)	2683.7 *19*	19 *8*	25478.9	(25$^-$)	
		2815.7 *18*	100 *12*	25347.1	(25$^-$)	(Q)
28205.7	(27$^+$)	2867.1 *24*	100 *10*	25338.5	(25$^+$)	Q
		3060.4 *25*	21 *7*	25145.2	(25$^+$)	
28230.0	(27$^-$)	3622.6 *33*	100	24607.3	(25$^-$)	Q
28244.8	(27$^-$)	2765.6 *17*	100 *29*	25478.9	(25$^-$)	
		2897.7 *21*	100 *14*	25347.1	(25$^-$)	
28369.2	(27$^-$)	3456.4 *25*	100	24912.7	(25$^-$)	(Q)
28555.2	(27$^-$)	3829.5 *31*	100	24725.6	(25$^-$)	
28745.4	(27$^-$)	3583.1 *33*	100	25162.1	(25$^-$)	
29473.8	(28$^+$)	3299.8 *26*	100	26173.9	(26$^+$)	Q
29682.6	(28$^-$)	2938.8 *18*	100	26743.7	(26$^-$)	Q
29818	(27)	3356.4 *32*	100	26461.6	(25)	
30370	(28)	2652.3 *19*	100	27718	(26)	Q
30434.7	(28$^+$)	3117.7 *21*	100	27316.9	(26$^+$)	(Q)
30508.0	(28$^-$)	4185.0 *37*	100	26322.9	(26$^-$)	
31213.0	(29$^-$)	2967.8 *22*	30 *20*	28244.8	(27$^-$)	
		3050.6 *23*	100 *20*	28162.7	(27$^-$)	
31397.8	(29$^-$)	3152.9 *23*	100	28244.8	(27$^-$)	
31542.7	(29$^+$)	3336.9 *29*	100	28205.7	(27$^+$)	
32916.7	(30$^-$)	3234.0 *25*	100	29682.6	(28$^-$)	
33360.6	(30$^+$)	3886.7 *31*	100	29473.8	(28$^+$)	
33458	(30)	3088.3 *24*	100	30370	(28)	
33791	(30$^+$)	4316.8 *34*	100	29473.8	(28$^+$)	
33798.0	(30$^+$)	3363.2 *25*	100	30434.7	(28$^+$)	
34600.7	(31$^-$)	3387.6 *26*	100	31213.0	(29$^-$)	
35339	(31$^+$)	3796.0 *38*	100	31542.7	(29$^+$)	
36496.6	(32$^-$)	3579.8 *31*	100	32916.7	(30$^-$)	
36897	(32)	3438.4 *32*	100	33458	(30)	
38366	(33$^-$)	3765.4 *34*	100	34600.7	(31$^-$)	
40455	(34$^-$)	3958.3 *37*	100	36496.6	(32$^-$)	
40730	(34$^-$)	4233.7 *40*	100	36496.6	(32$^-$)	
42519	(35$^-$)	4152.6 *39*	100	38366	(33$^-$)	

† From ^{28}Si(^{36}Ar,2pγ),^{40}Ca(^{28}Si,α2pγ), unless otherwise indicated. Note that above excitation energy of 7430 keV, γ-ray data are available only from this reaction. Below this energy, γ-ray data are available from (^{6}Li,pnγ) up to 7422 keV; from (^{3}He,2nγ) up to 5481 keV, and from (p,2nγ) and (^{3}He,2nγ) up to 4903 keV; and only low-spin (J≤2) data from ^{62}Ga ε decay up to 5920 keV.

‡ From ^{62}Ga ε decay.

From γγ(θ)(DCO), γγ(θ) and γ(θ) in in-beam γ-ray data, combined with RUL for E2 and M2 when level half-lives are known. Above excitation energy of 7430 keV, multipolarities are only from γγ(θ)(DCO) data in ^{28}Si(^{36}Ar,2pγ),^{40}Ca(^{28}Si,α2pγ), where assignments in this dataset are mult=Q for stretched quadrupole, (most likely E2), and mult=D or D+Q for stretched dipole, where mult=D is E1 or M1, and mult=D+Q is most likely M1+E2. In rare cases of ΔJ=0 transitions, mult=D is E1 or M1.

@ Total theoretical internal conversion coefficients, calculated using the BrIcc code (2008Ki07) with "Frozen Orbitals" approximation based on γ-ray energies, assigned multipolarities, and mixing ratios, unless otherwise specified.

& Placement of transition in the level scheme is uncertain.

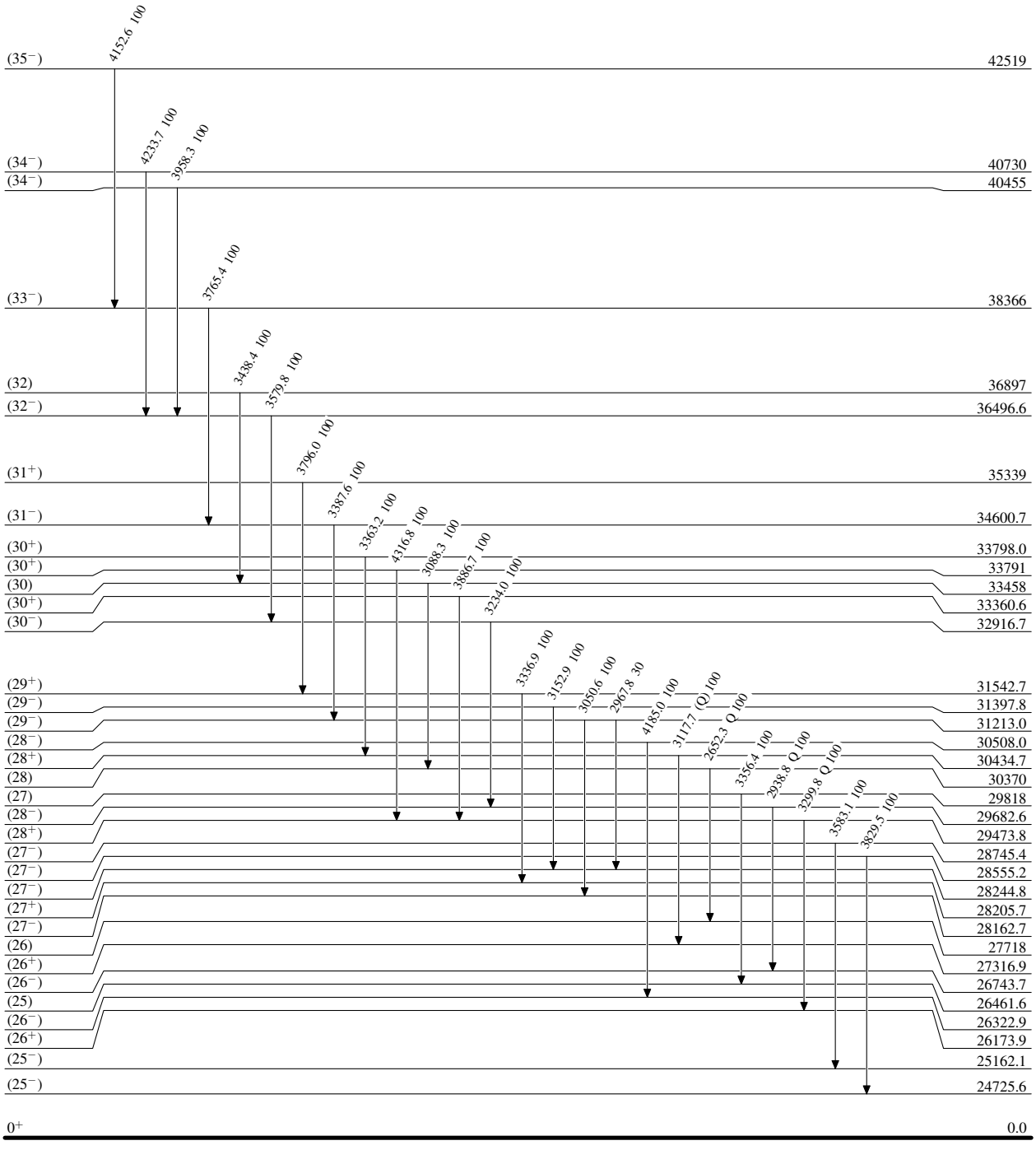
From ENSDF

$^{62}_{30}Zn_{32}$-28

Adopted Levels, Gammas

Level Scheme

Intensities: Relative photon branching from each level

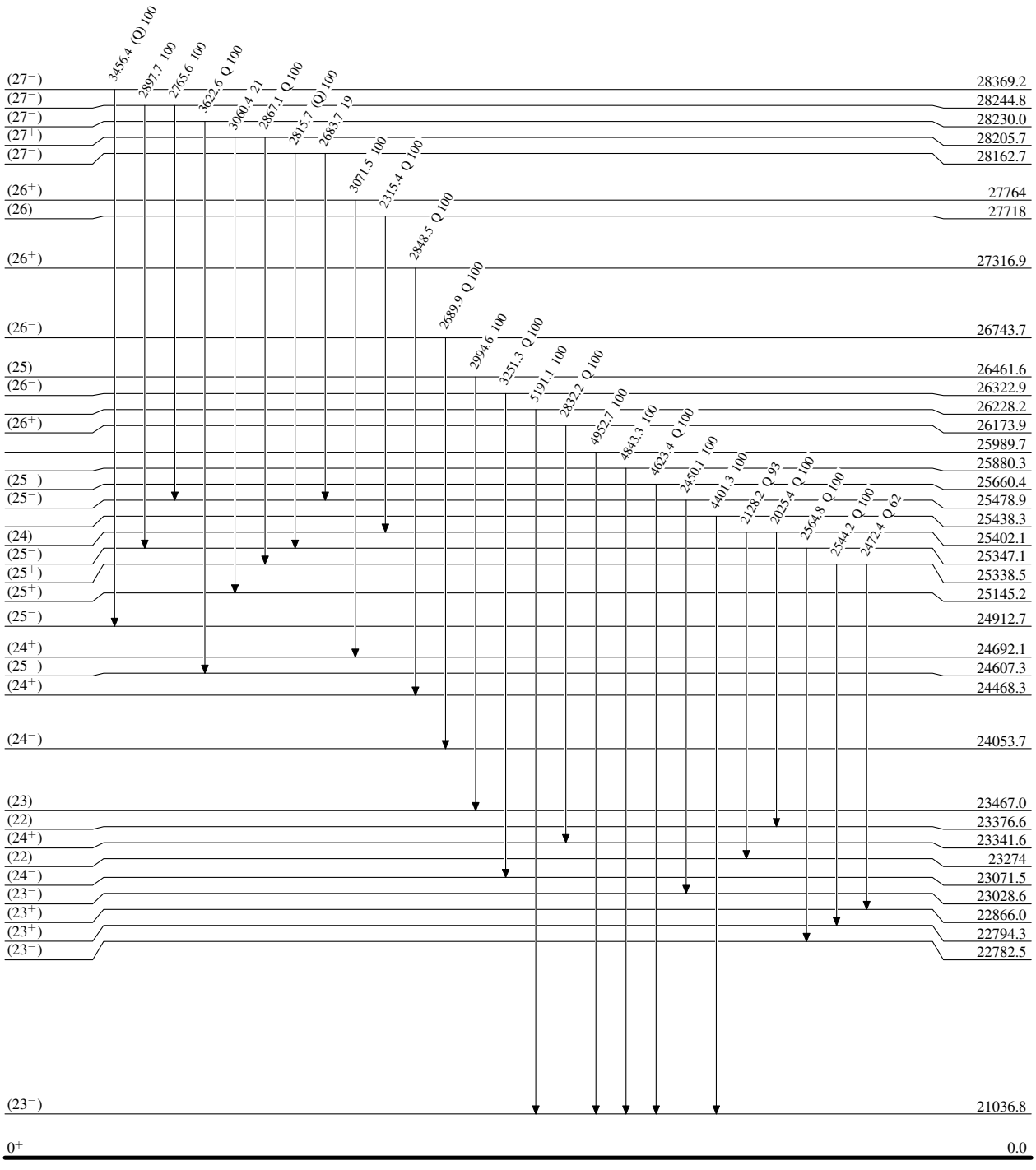


$^{62}_{30}Zn_{32}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level

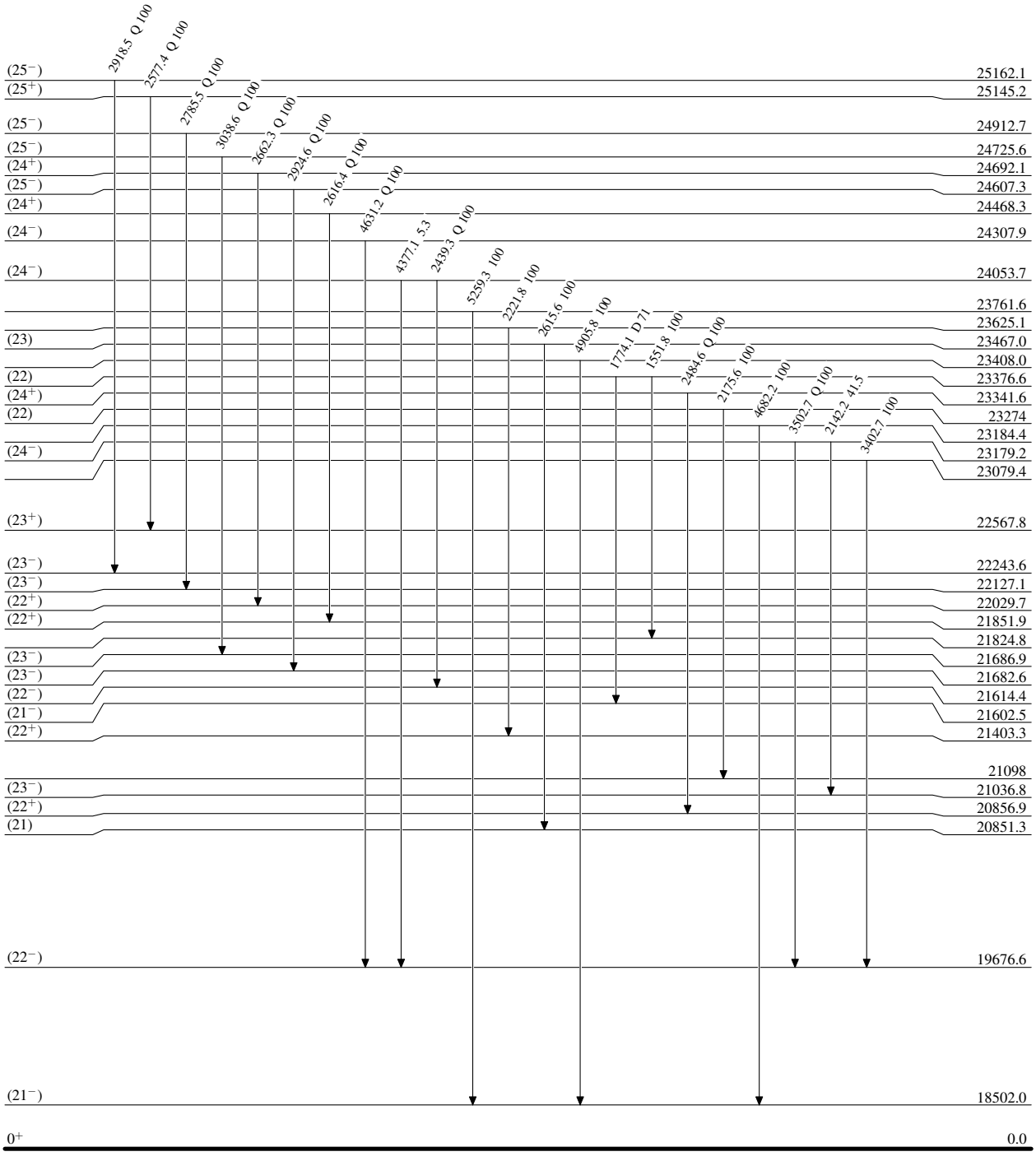


$^{62}_{30}Zn_{32}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level

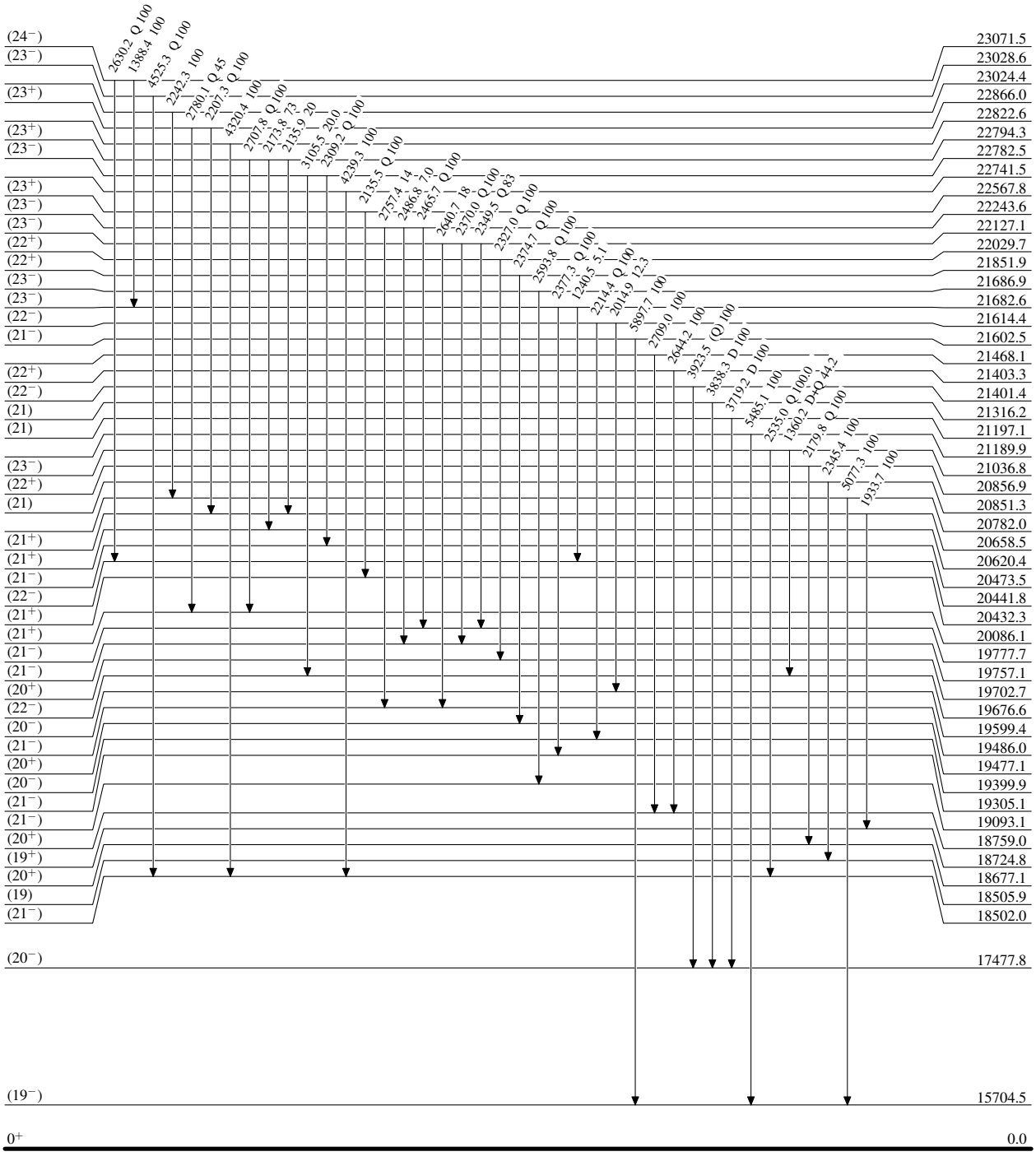


$^{62}_{30}Zn_{32}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level

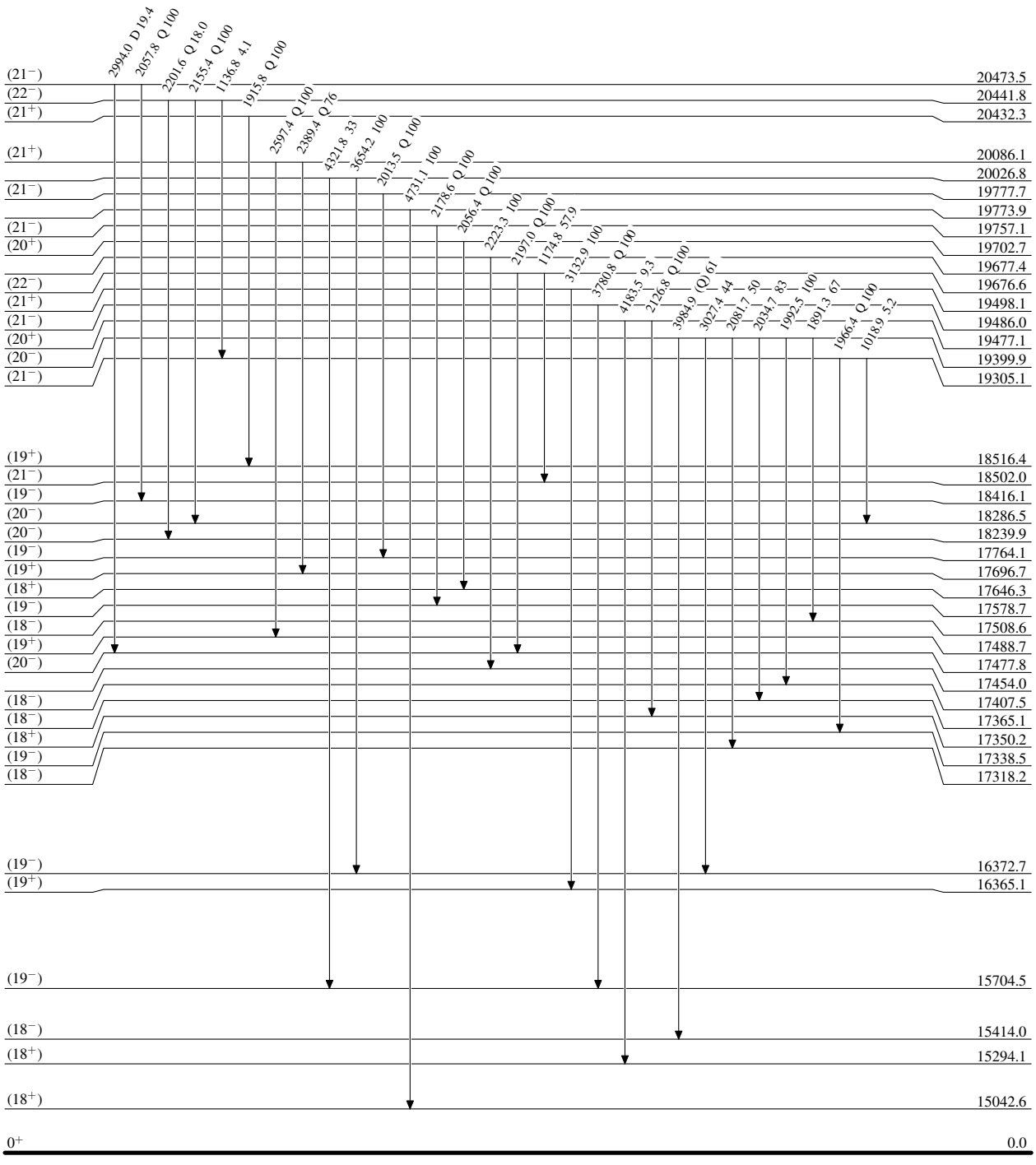


$^{62}_{30}Zn_{32}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level

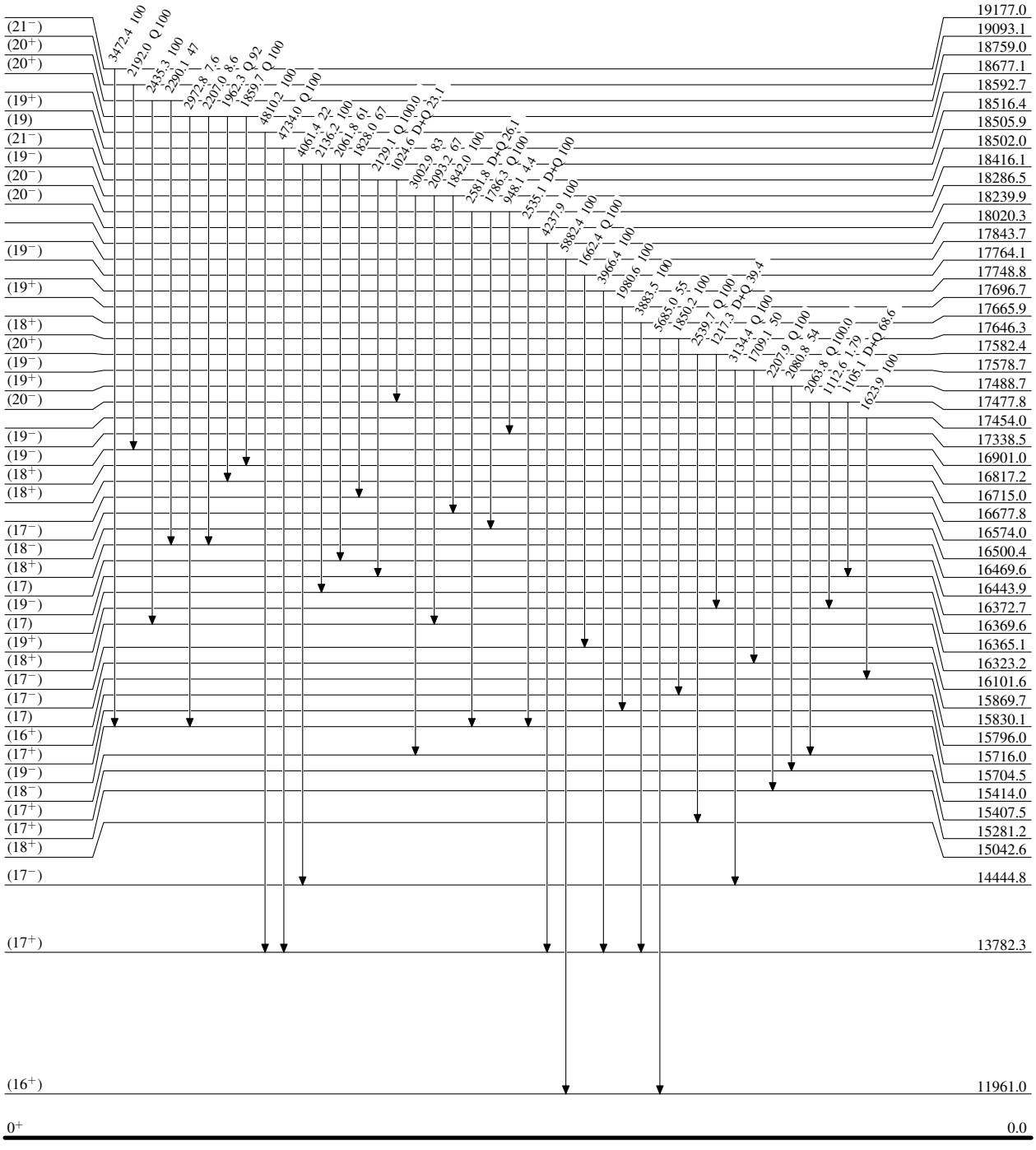


$^{62}_{30}Zn_{32}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level

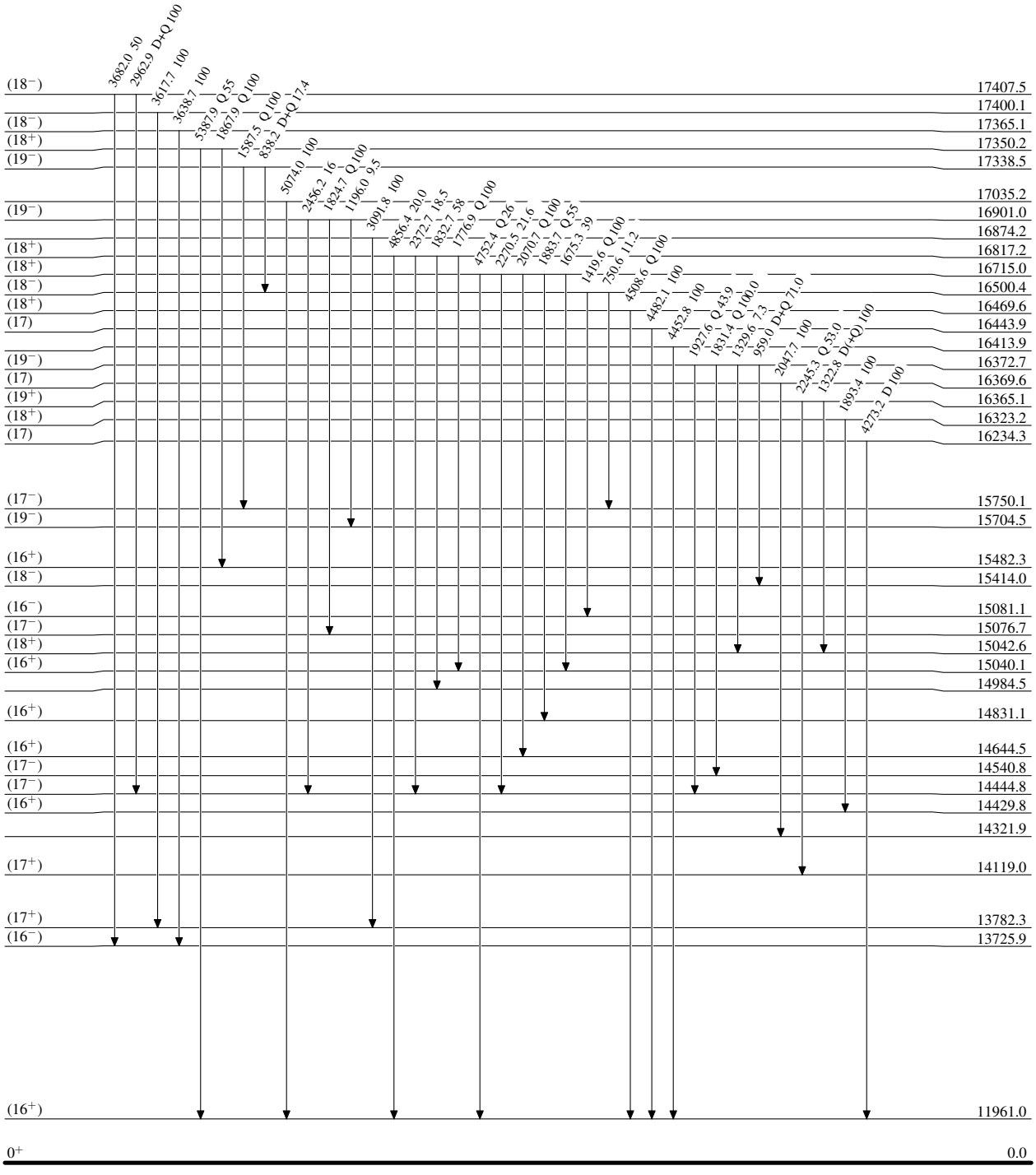


$^{62}_{30}Zn_{32}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level

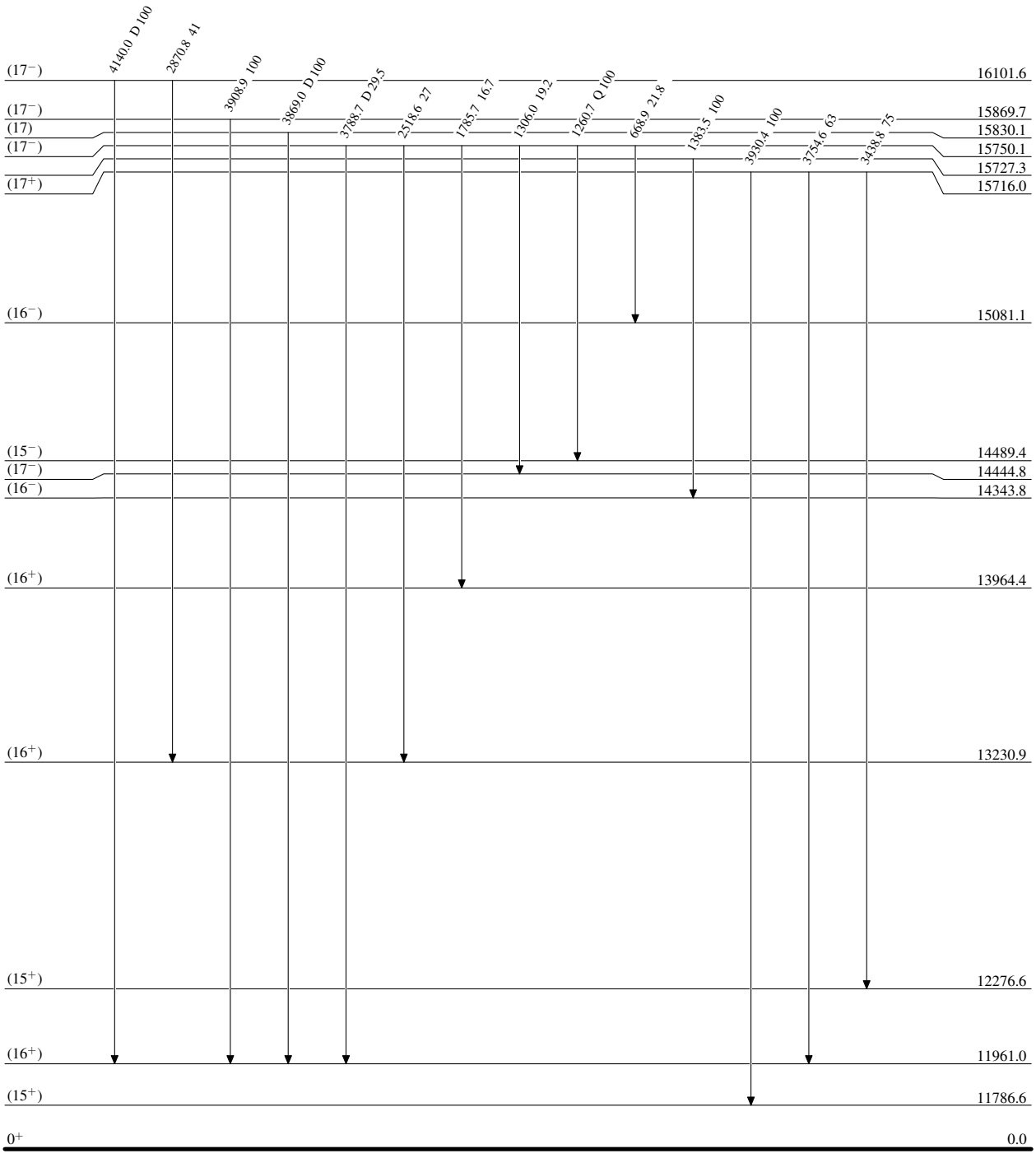


$^{62}_{30}Zn_{32}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level

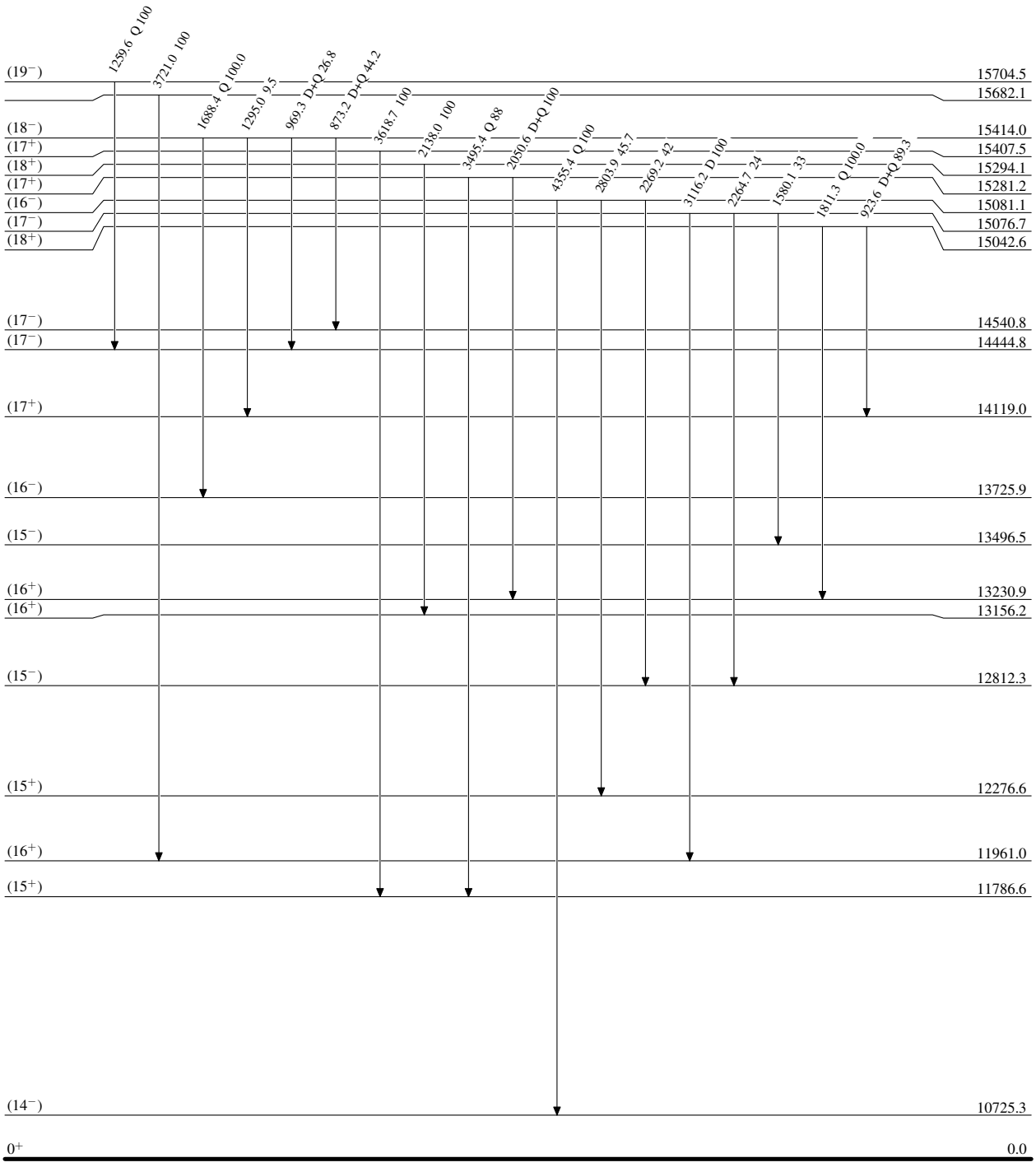


$^{62}_{30}Zn_{32}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level

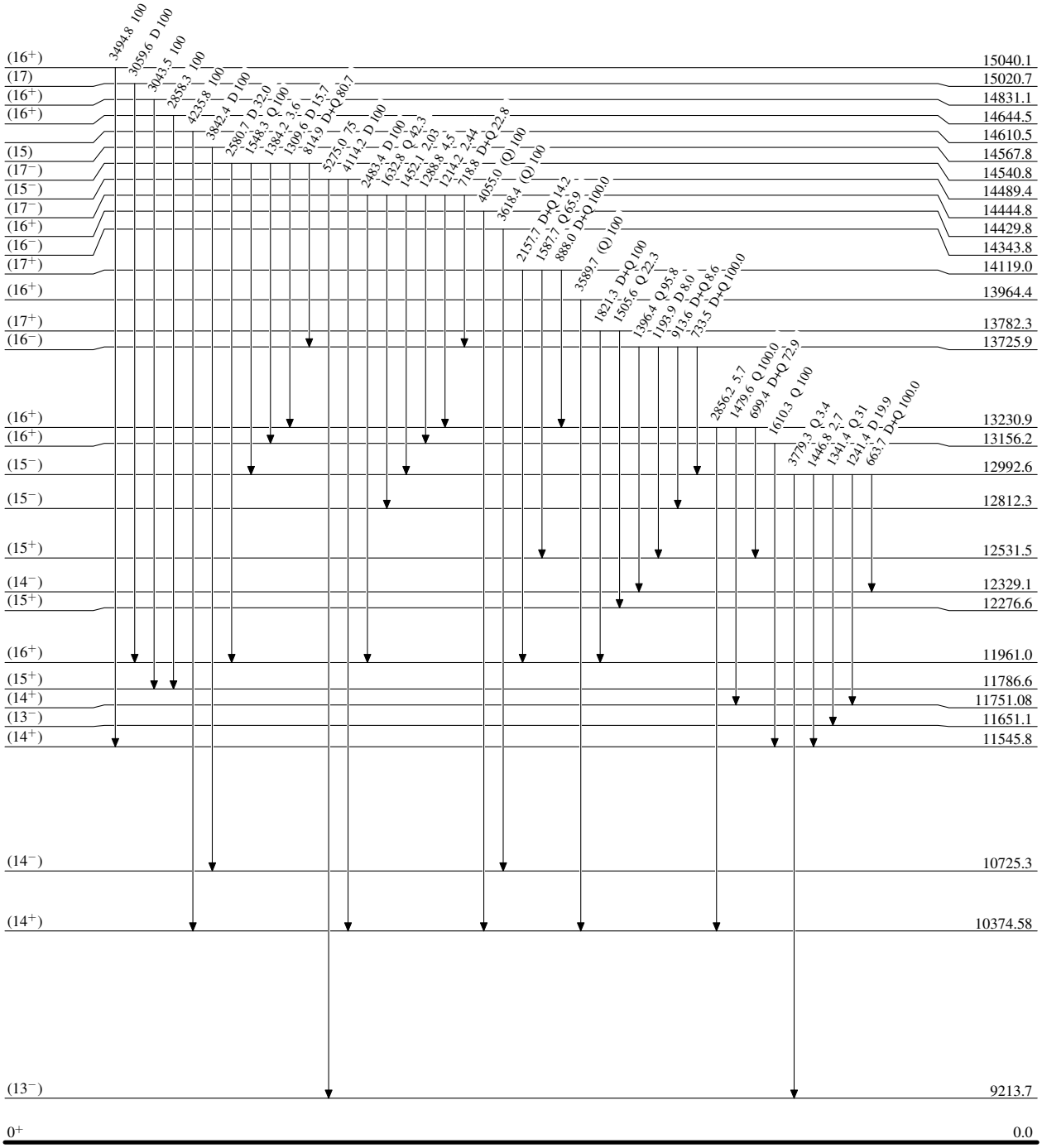


$^{62}_{30}Zn_{32}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level

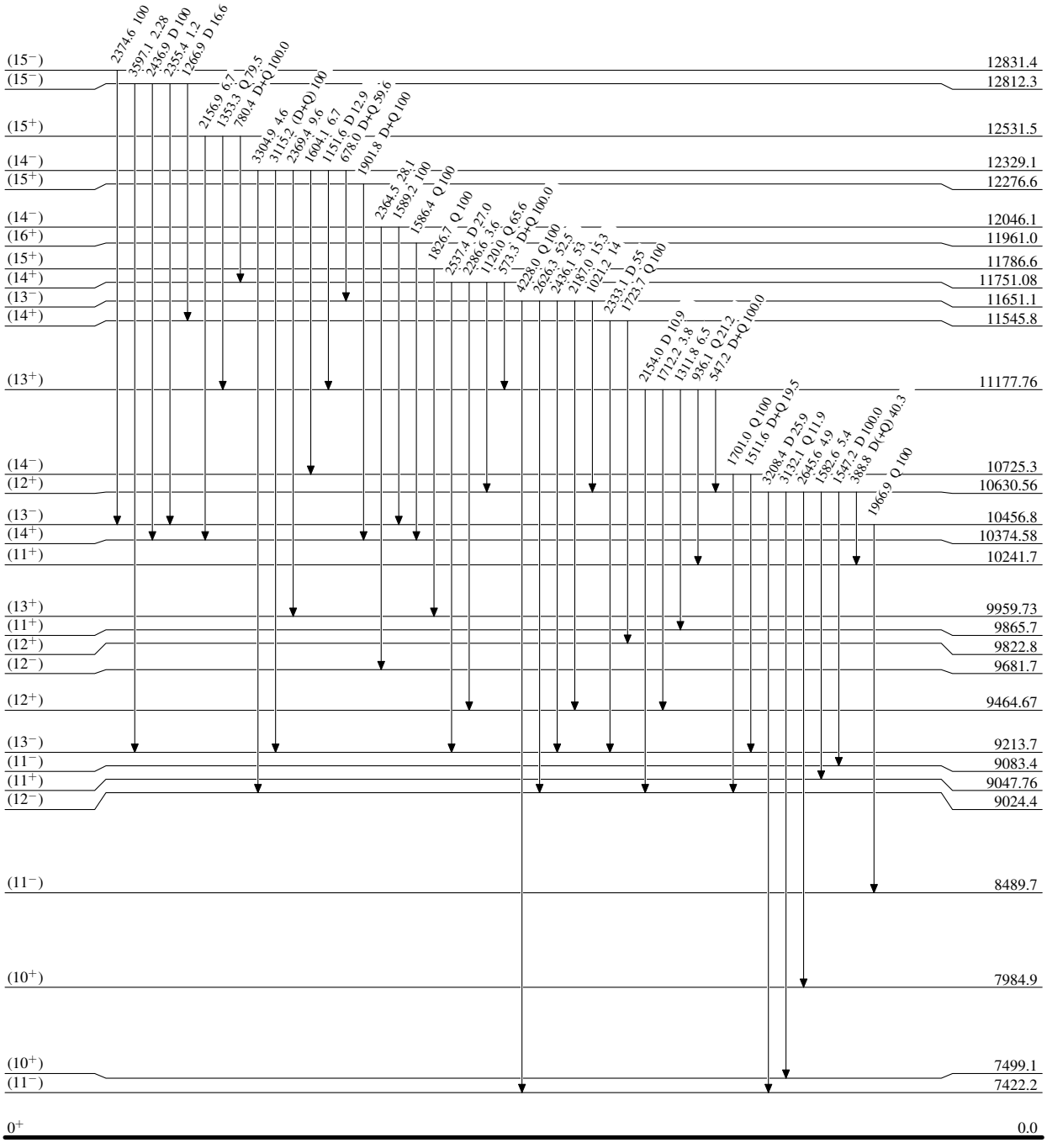


$^{62}_{30}Zn_{32}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level

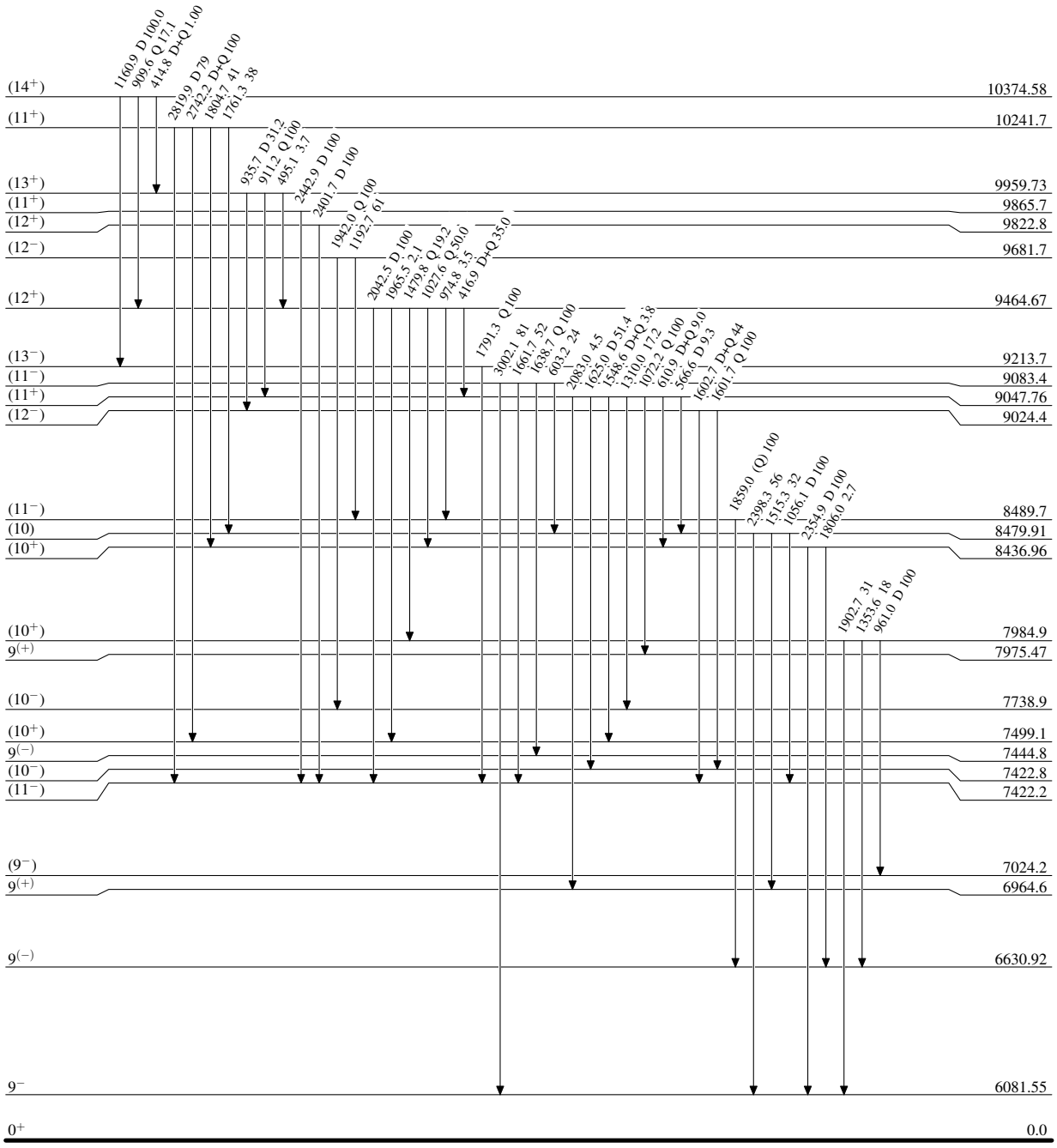


$^{62}_{30}Zn_{32}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level



$^{62}_{30}Zn_{32}$

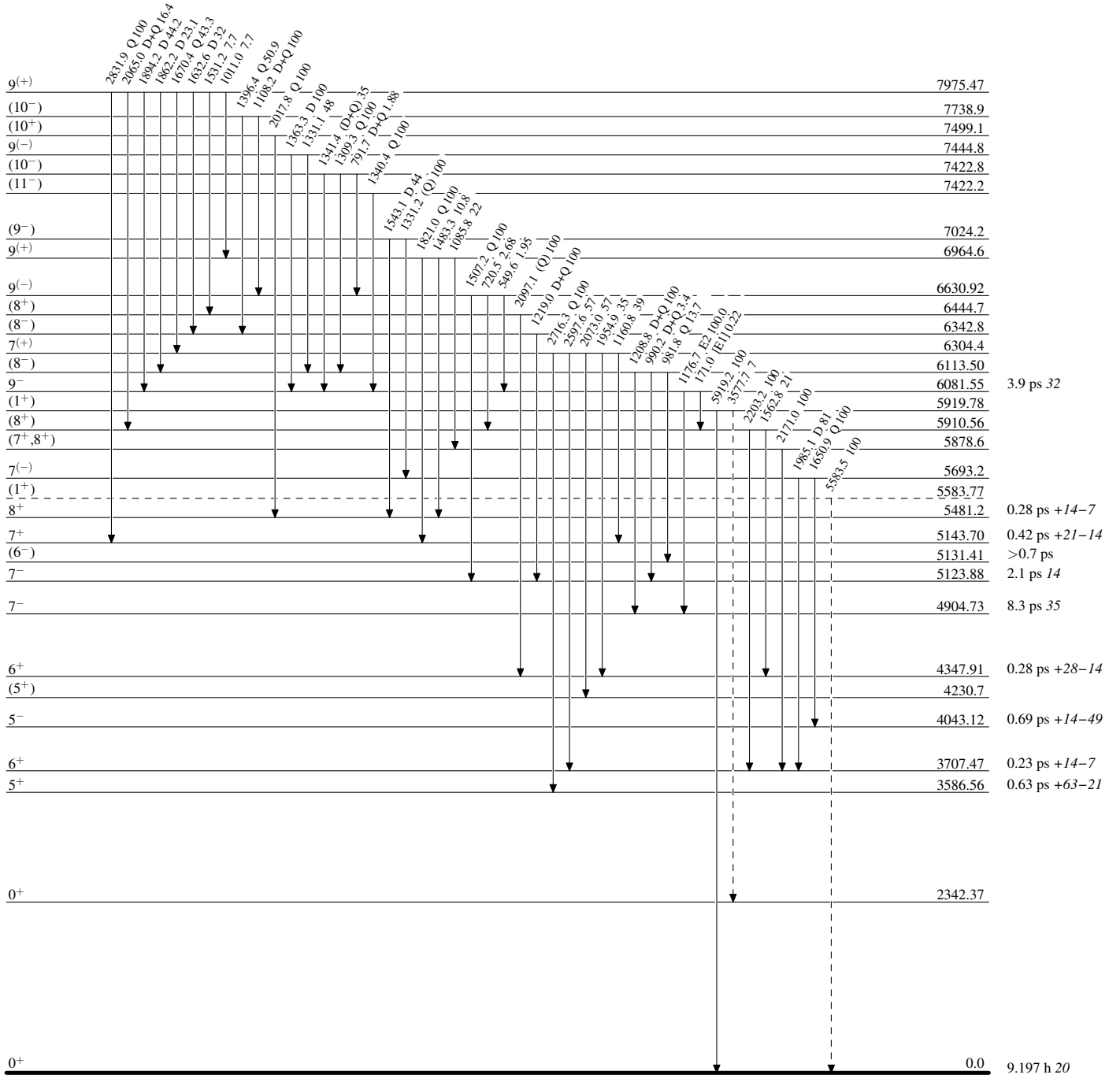
Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

γ Decay (Uncertain)



$^{62}_{30}Zn_{32}$

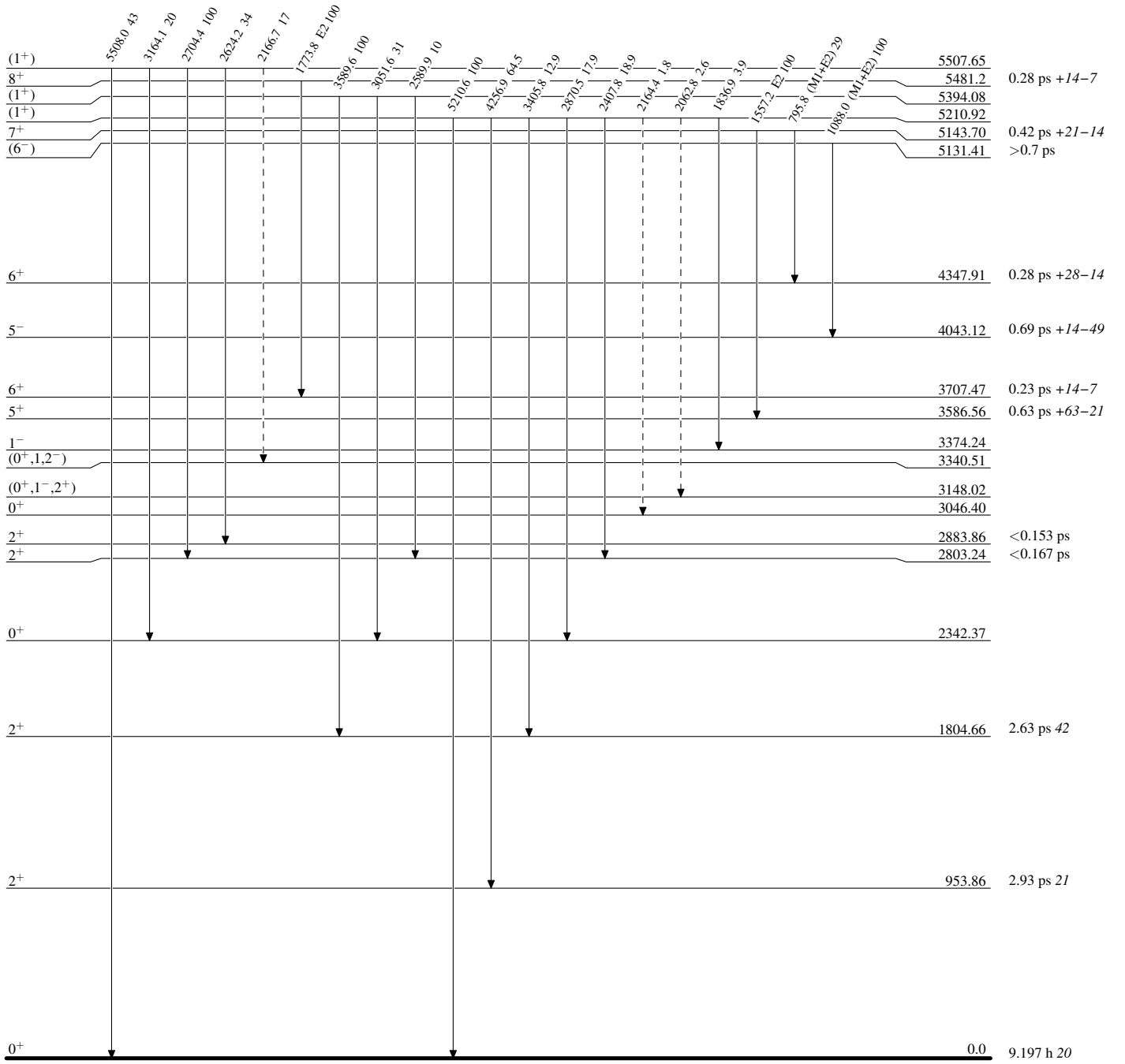
Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

γ Decay (Uncertain)



$^{62}_{30}Zn_{32}$

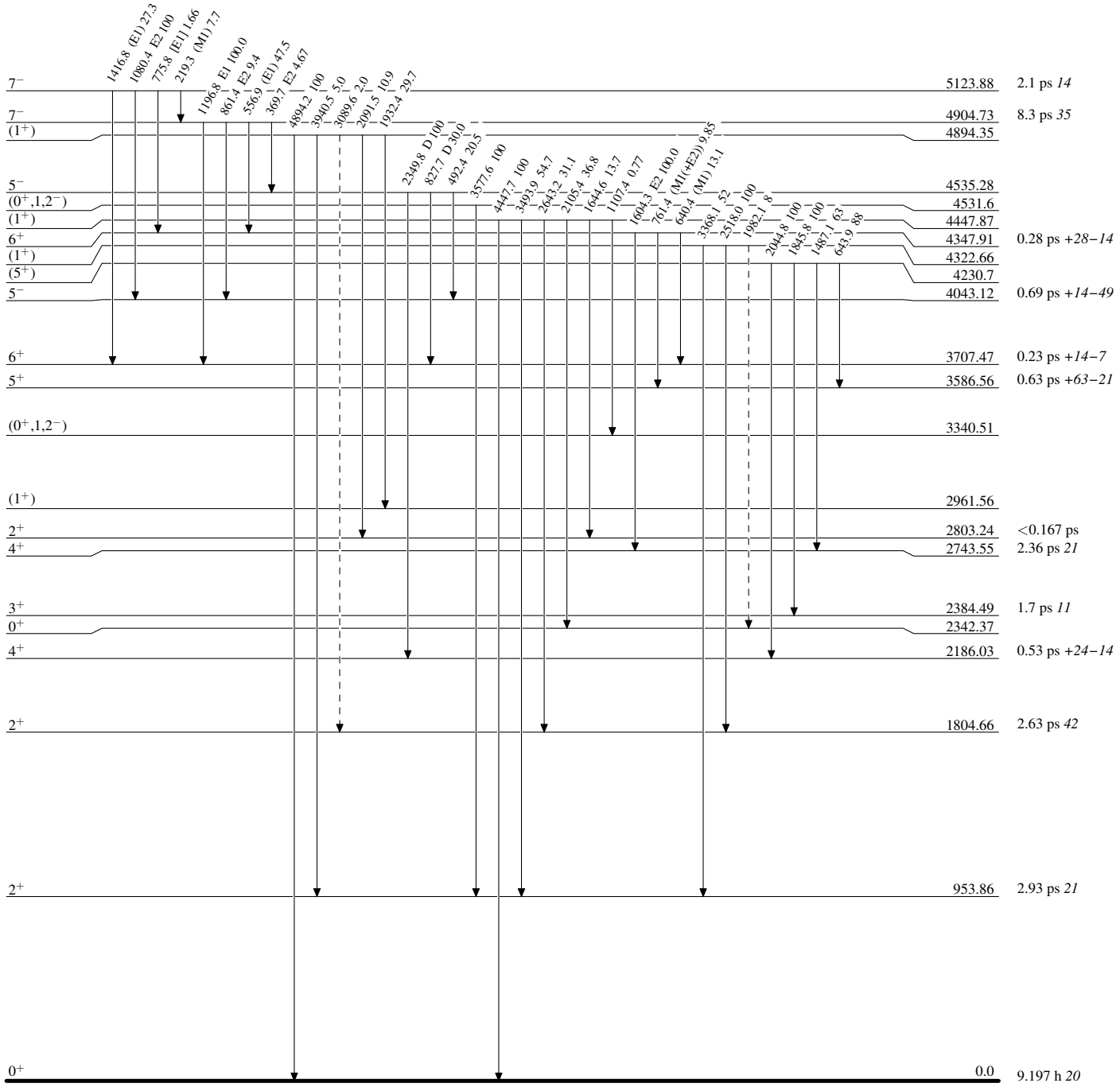
Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

– – – – – – ► γ Decay (Uncertain)



$^{62}_{30}Zn_{32}$

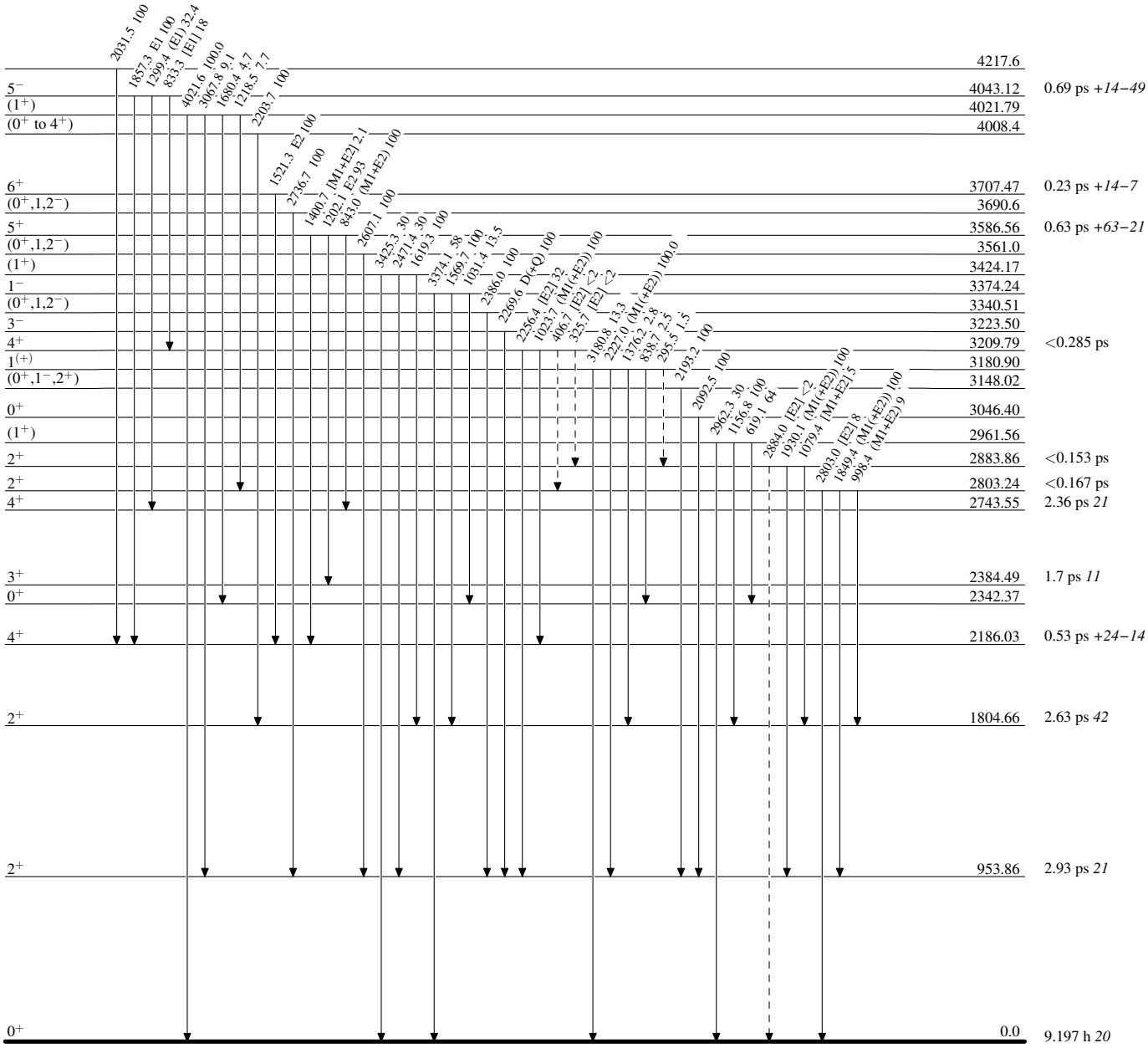
Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

γ Decay (Uncertain)

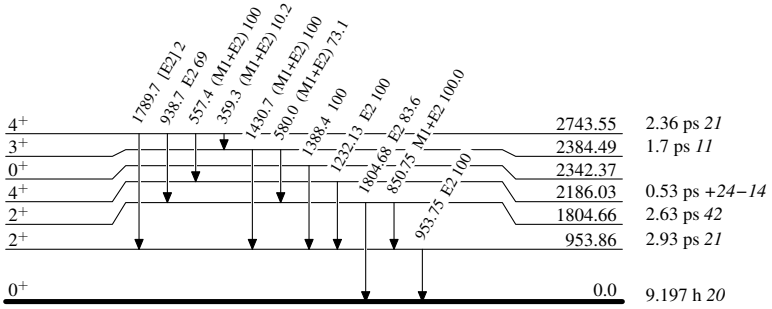


$^{62}_{30}Zn_{32}$

Adopted Levels, Gammas

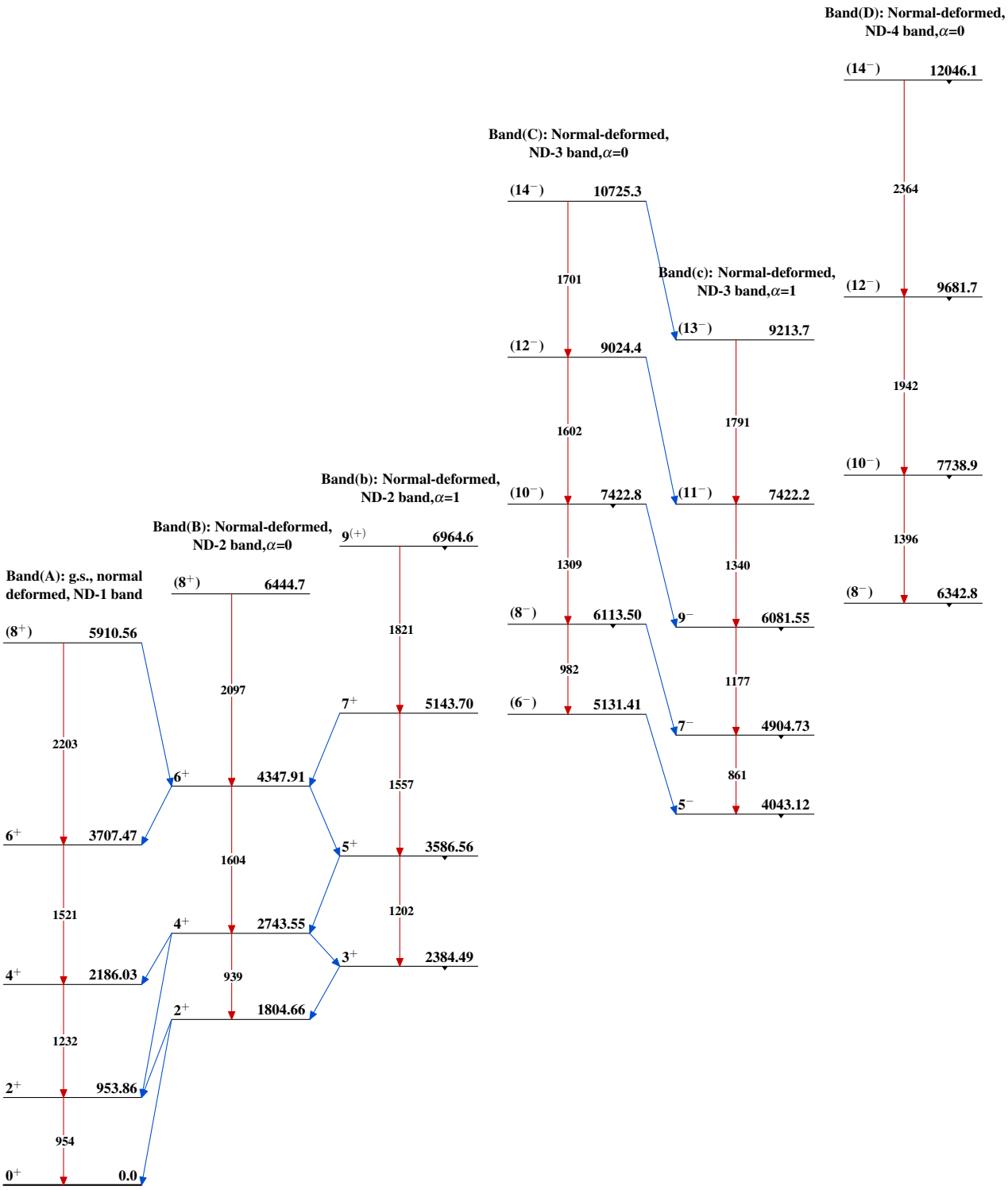
Level Scheme (continued)

Intensities: Relative photon branching from each level



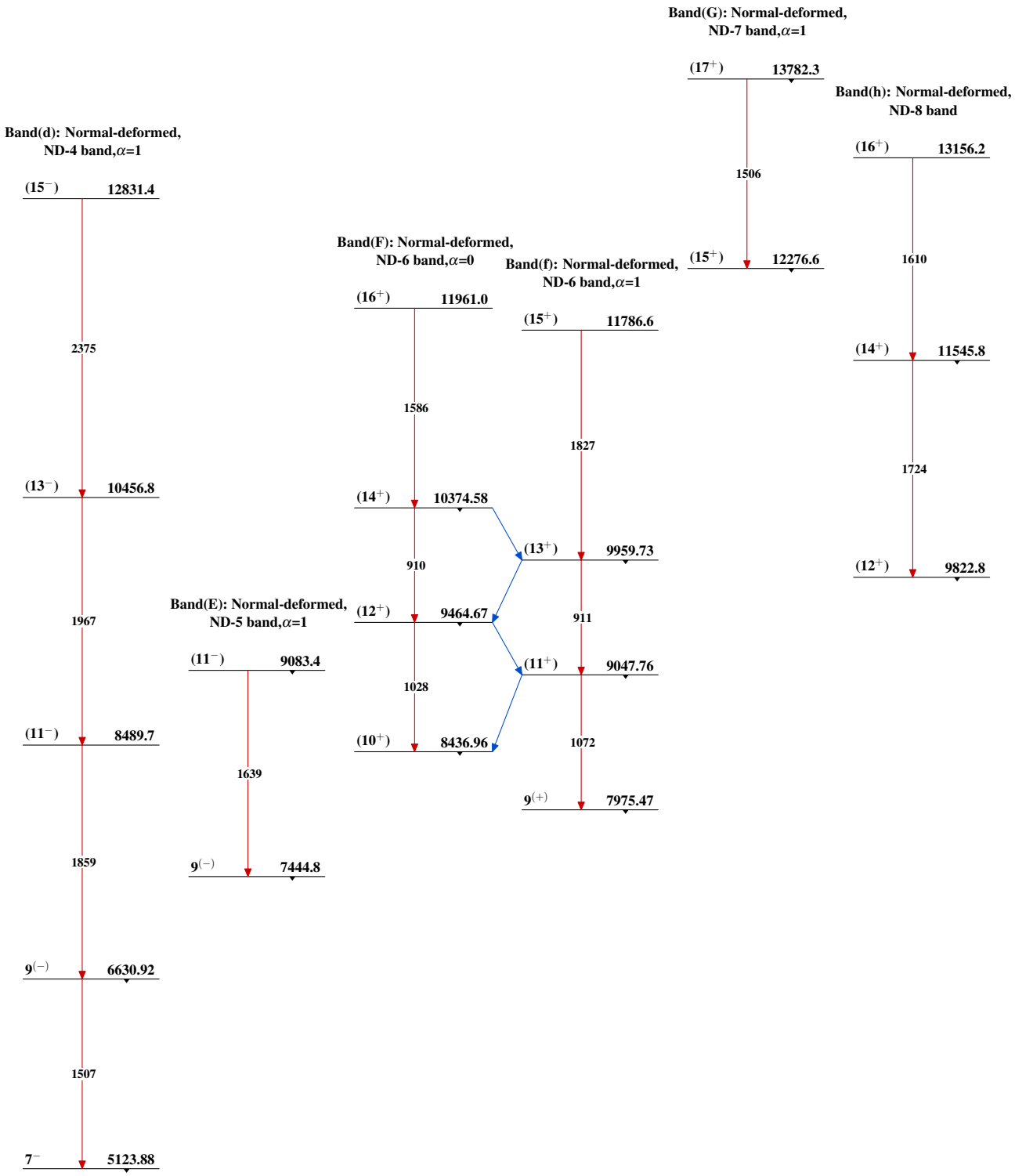
$^{62}_{30}Zn_{32}$

Adopted Levels, Gammas



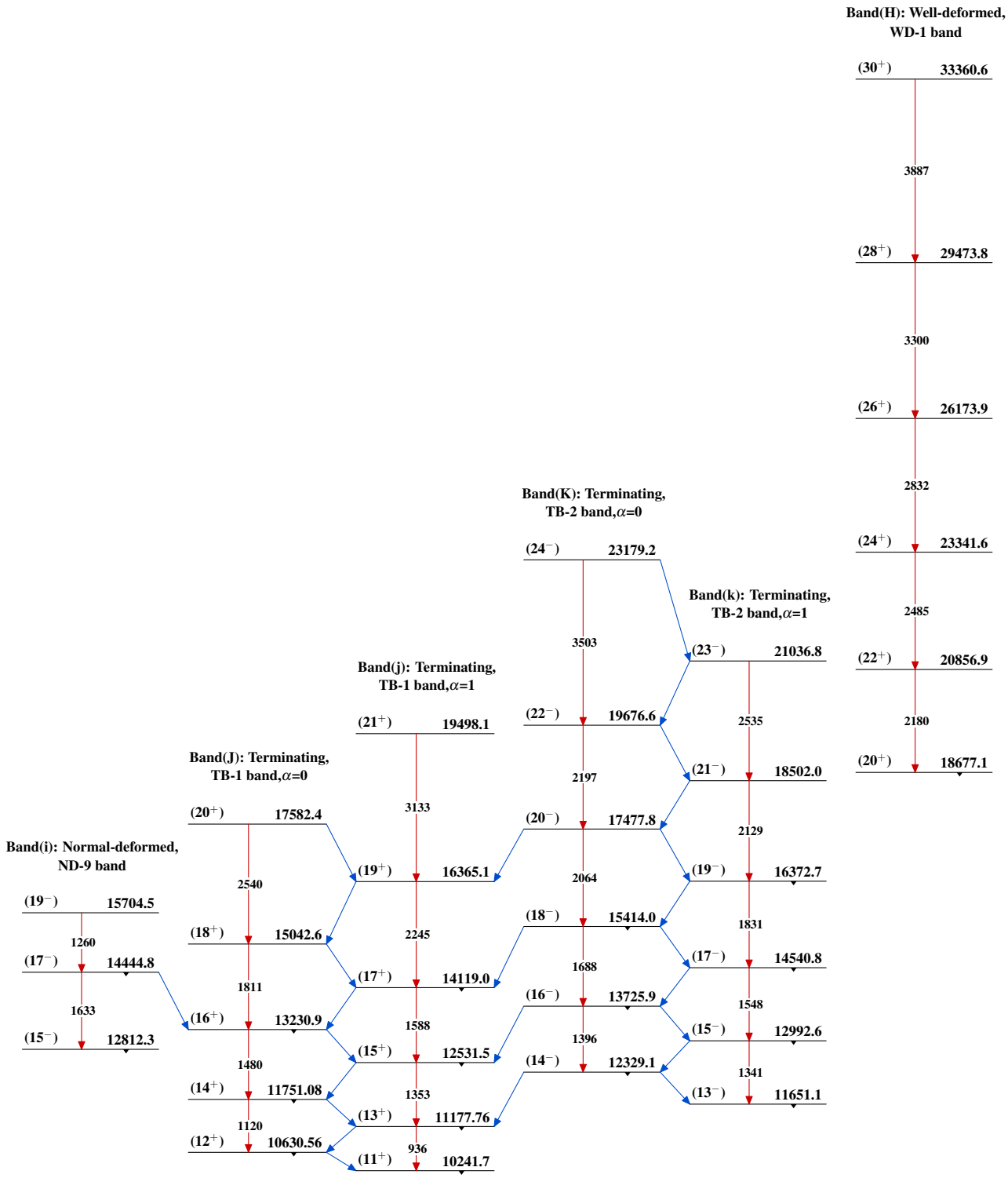
$^{62}_{30}Zn_{32}$

Adopted Levels, Gammas (continued)



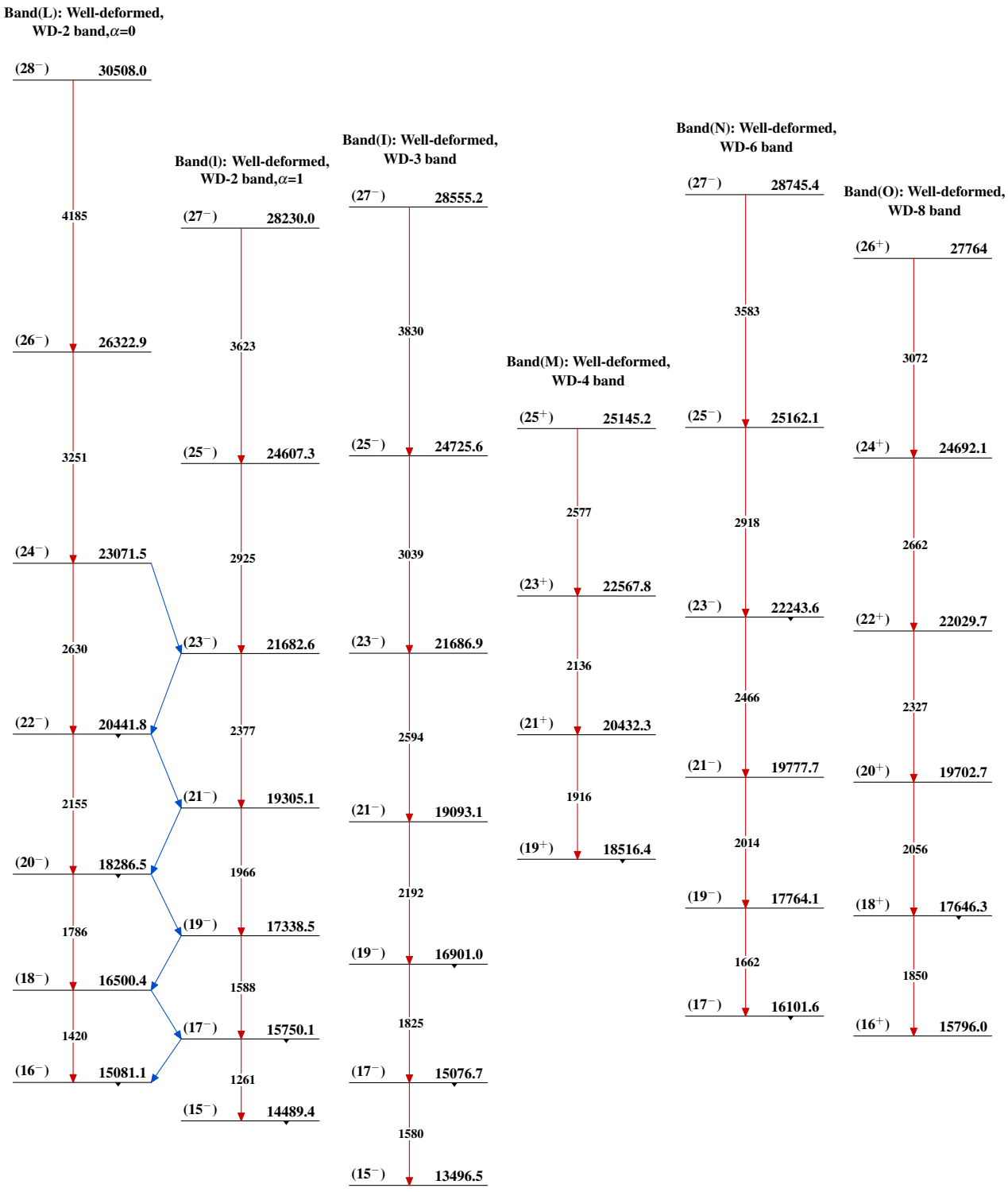
$^{62}_{30}Zn_{32}$

Adopted Levels, Gammas (continued)

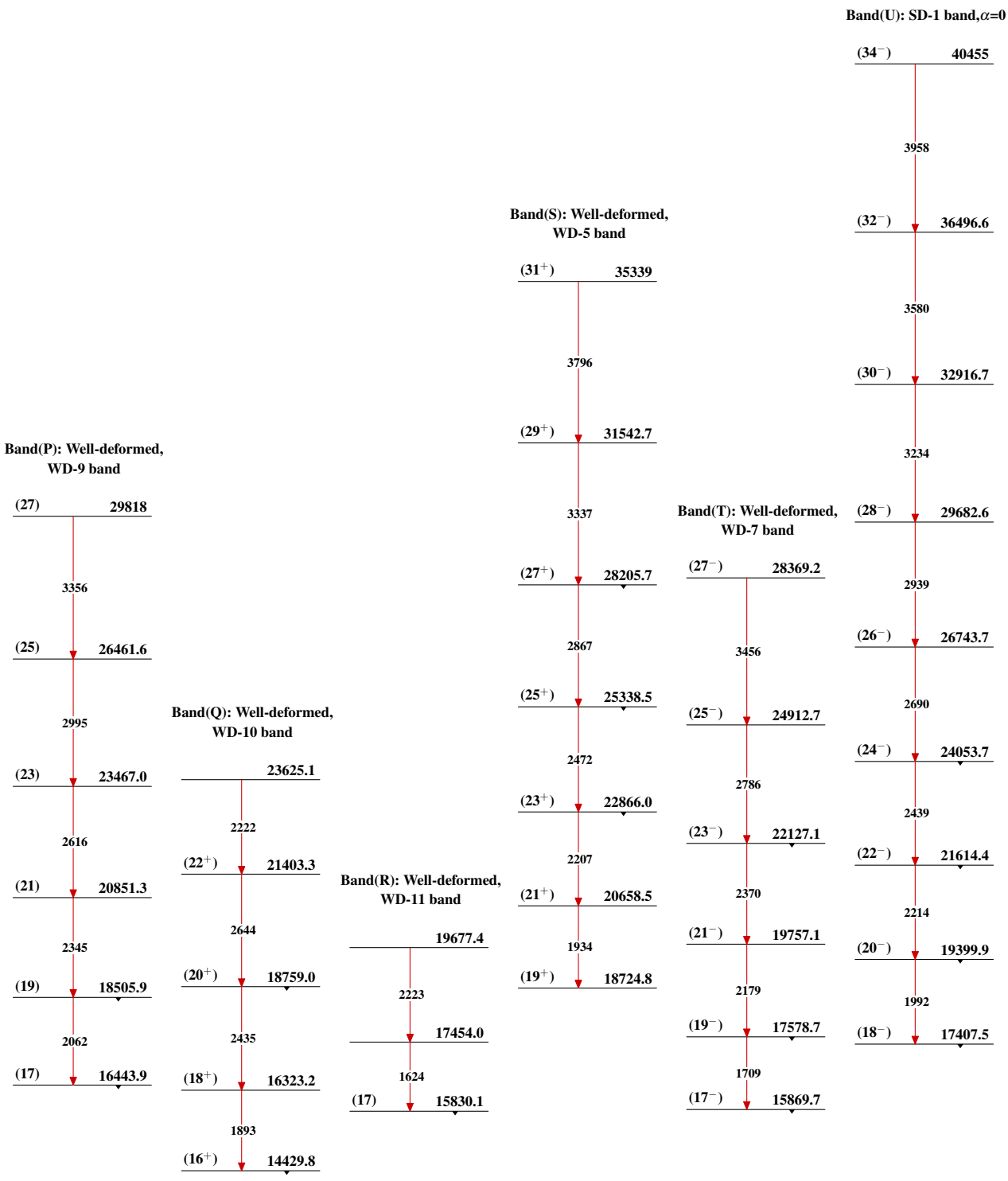


$^{62}_{30}Zn_{32}$

Adopted Levels, Gammas (continued)

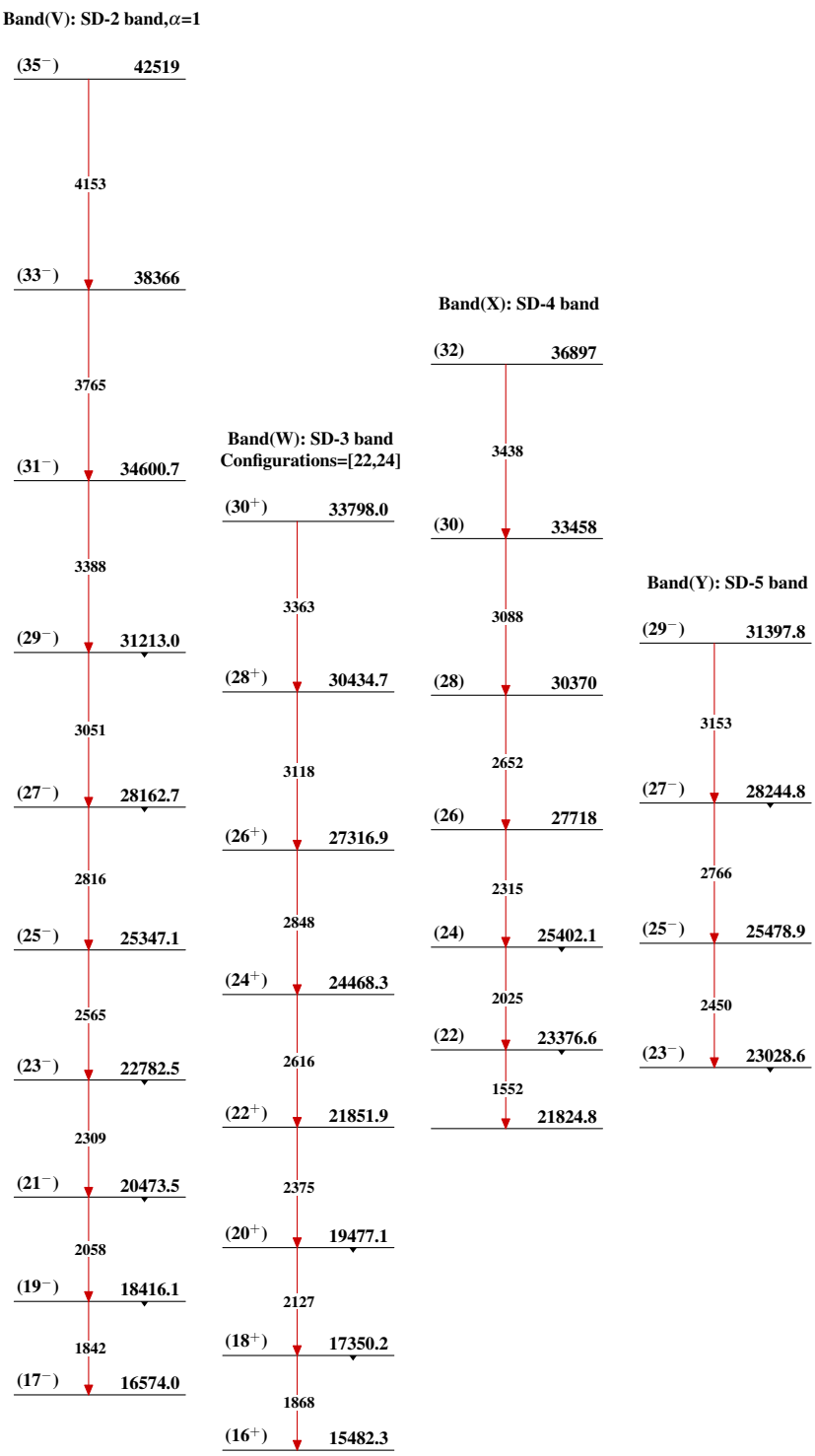


Adopted Levels, Gammas (continued)



$^{62}_{30}Zn_{32}$

Adopted Levels, Gammas (continued)



$^{62}_{30}Zn_{32}$